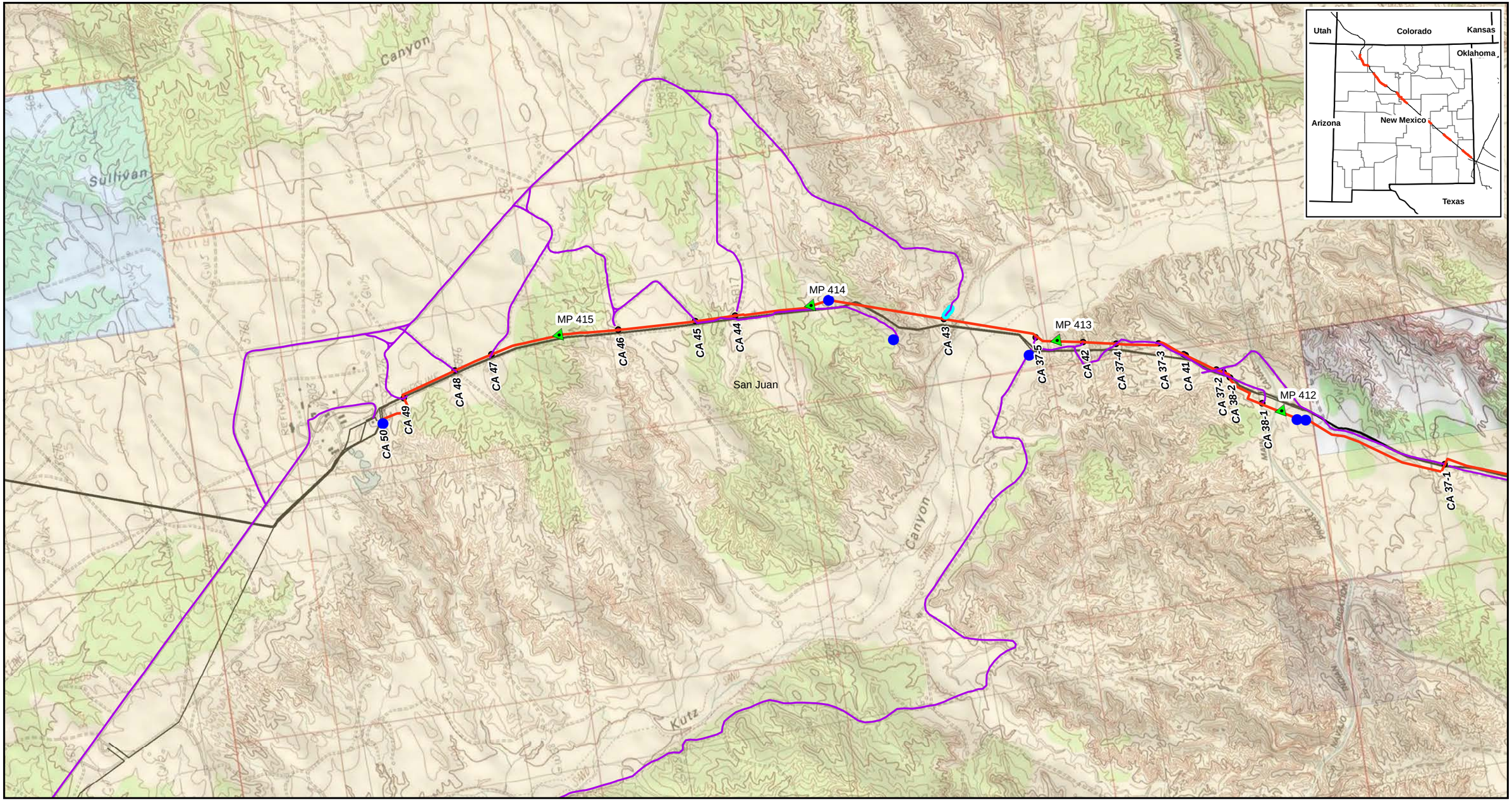
APPENDIX A

LOCATION MAPS



Legend

- Proposed Centerline
- Existing MAPL System
- Construction Access
- Access Road Improvements
- Hydrostatic Discharge Location

Land Ownership

- BLM
- BOR
- Forest Service
- BIA/Tribal
- State
- State Game and Fish
- Private

N

2,000 0 2,000
Feet

Mid-America Pipeline

General Location of the WEP III Loop Pipeline Segment 1

San Juan County, New Mexico

San Juan

MP 411
MP 410
MP 409
MP 408
MP 407
MP 406
MP 405

CA 37-1
CA 36
CA-35
CA 34
CA 33
CA 32
CA 31
CA 30

Legend

- Proposed Centerline
- Existing MAPL System
- Construction Access
- Access Road Improvements
- Hydrostatic Discharge Location

Land Ownership

- BLM
- BOR
- Forest Service
- BIA/Tribal
- State
- State Game and Fish
- Private

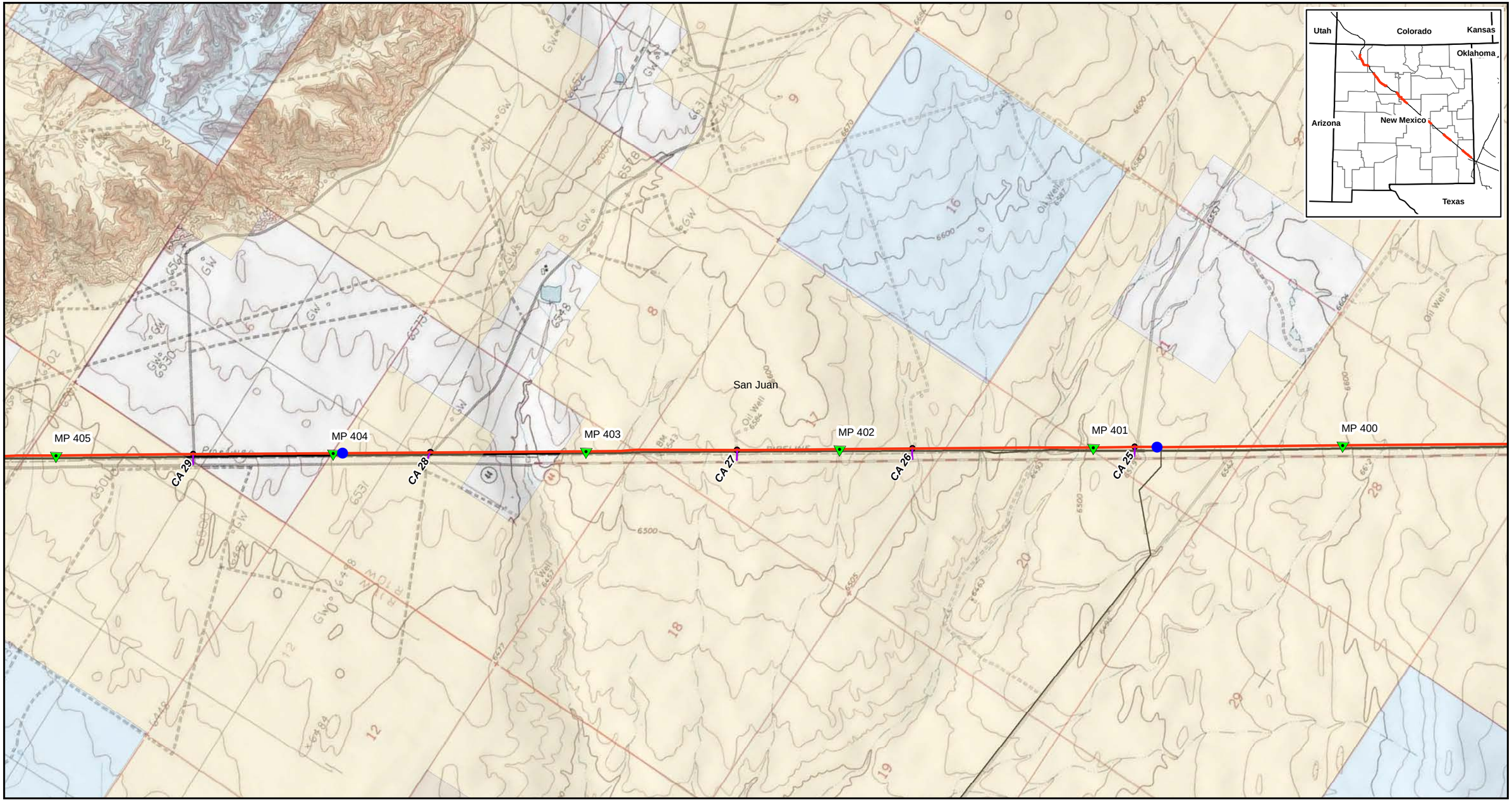
N

2,000 0 2,000 Feet

Mid-America Pipeline

General Location of the WEP III Loop Pipeline Segment 1

San Juan County, New Mexico



Legend

- Proposed Centerline
- Existing MAPL System
- Construction Access
- Access Road Improvements
- Hydrostatic Discharge Location

Land Ownership

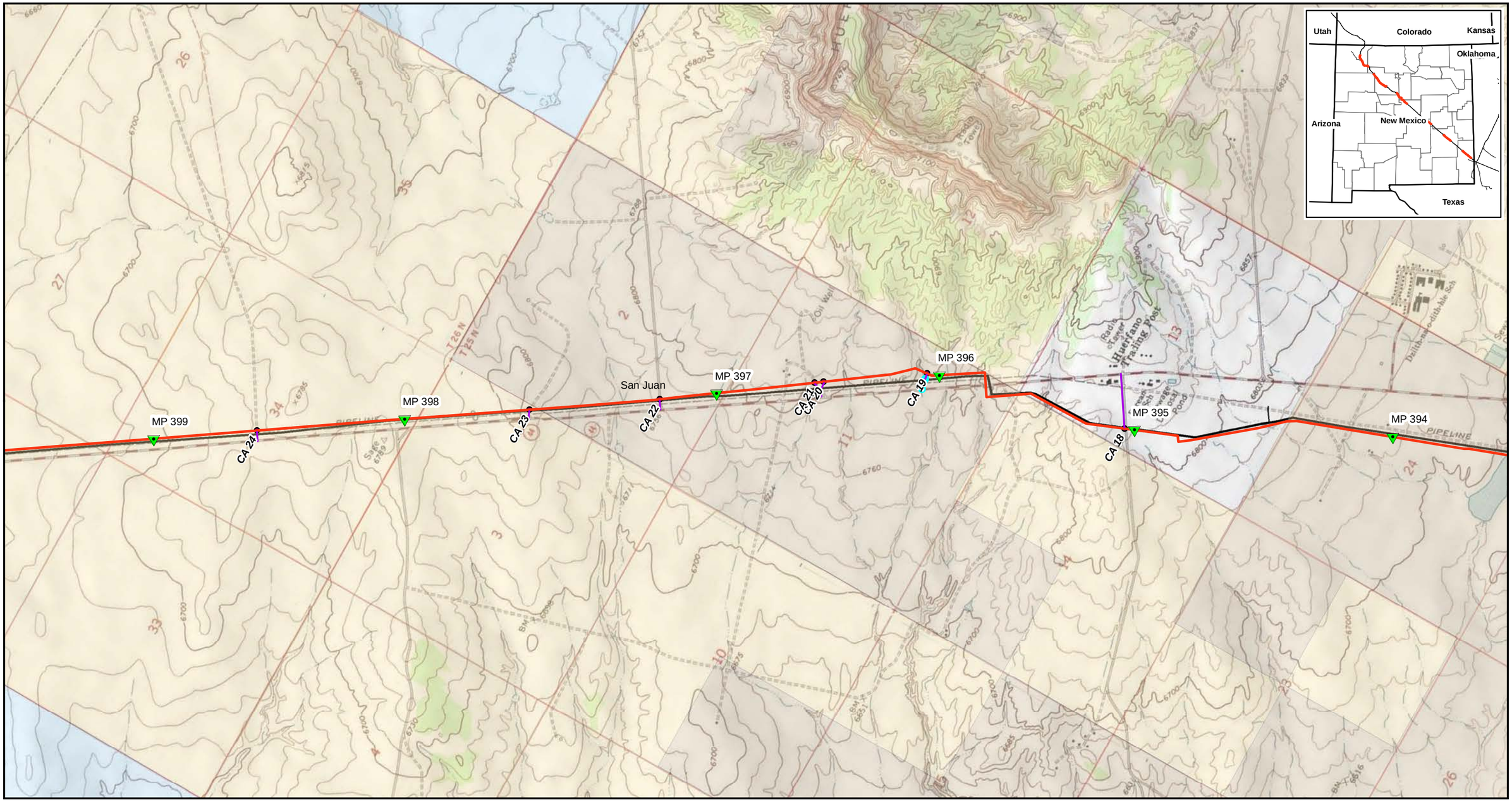
- BLM
- BOR
- Forest Service
- BIA/Tribal
- State
- State Game and Fish
- Private

2,000 0 2,000
Feet

Mid-America Pipeline

General Location of the WEP III Loop Pipeline Segment 1

San Juan County, New Mexico



Legend

- Proposed Centerline
- Existing MAPL System
- Construction Access
- Access Road Improvements
- Hydrostatic Discharge Location

Land Ownership

- BLM
- BOR
- Forest Service
- BIA/Tribal
- State
- State Game and Fish
- Private

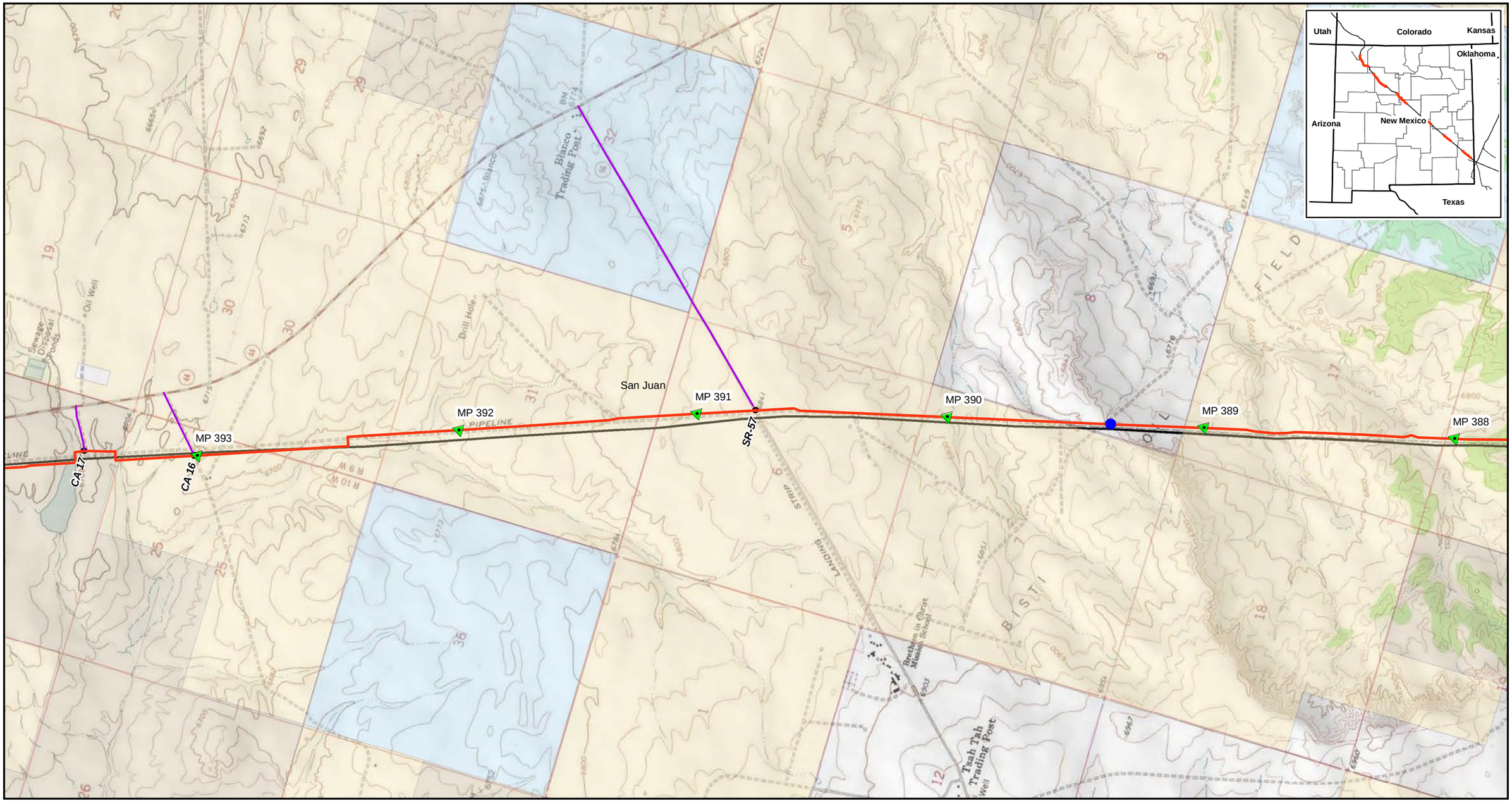
N

2,000 0 2,000
Feet

Mid-America Pipeline

General Location of the WEP III Loop Pipeline Segment 1

San Juan County, New Mexico



Legend

- Proposed Centerline
- Existing MAPL System
- Construction Access
- Access Road Improvements
- Hydrostatic Discharge Location

Land Ownership

- BLM
- BOR
- Forest Service
- BIA/Tribal
- State
- State Game and Fish
- Private

N

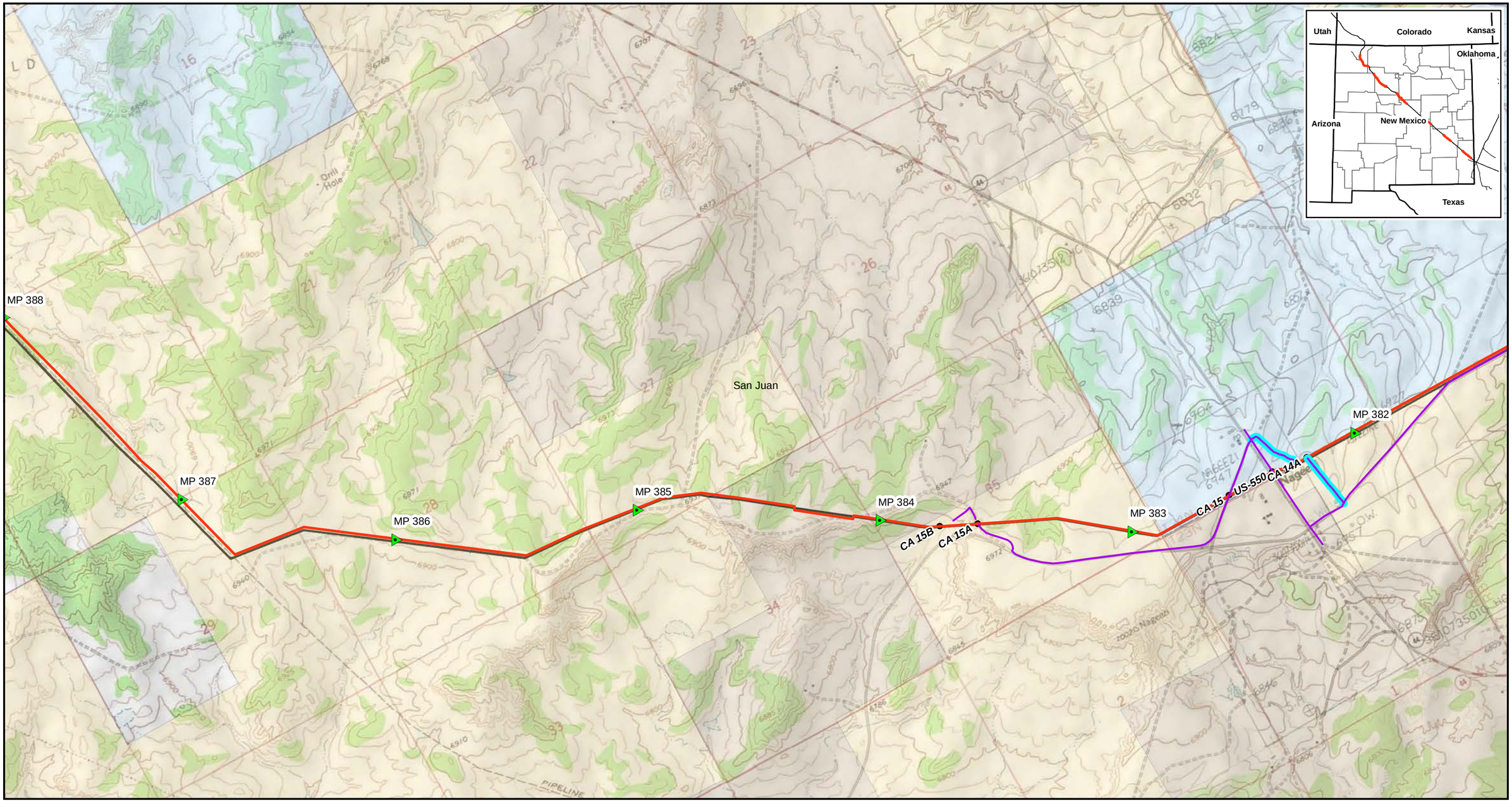
2,000 0 2,000 Feet

Mid-America Pipeline

General Location of the WEP III Loop Pipeline Segment 1

San Juan County, New Mexico

Sheet 5 of 8



Legend

- Proposed Centerline
- Existing MAPL System
- Construction Access
- Access Road Improvements
- Hydrostatic Discharge Location

Land Ownership

- BLM
- BOR
- Forest Service
- BIA/Tribal
- State
- State Game and Fish
- Private

N

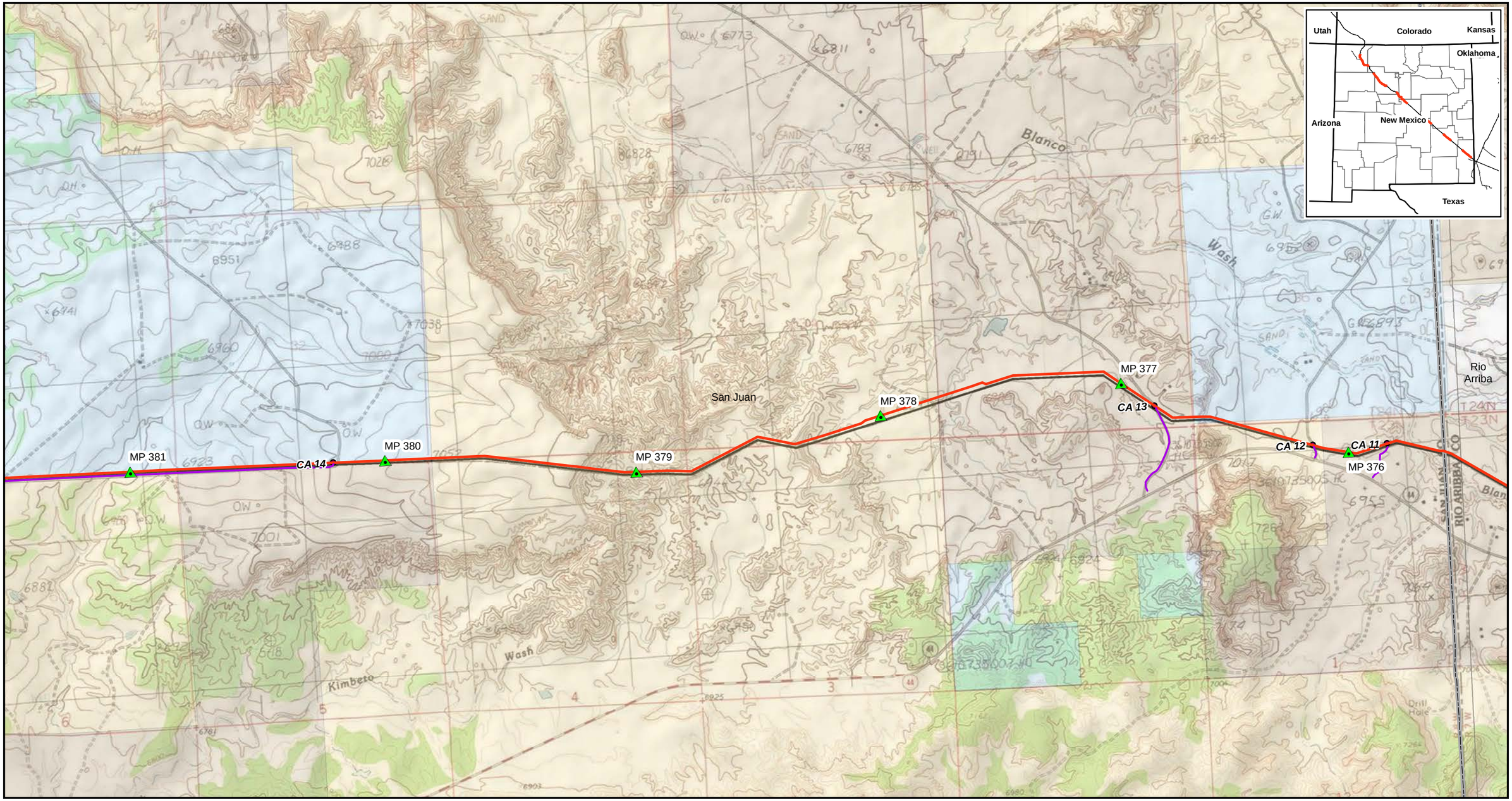
2,000 0 2,000 Feet

Mid-America Pipeline

General Location of the WEP III Loop Pipeline Segment 1

San Juan County, New Mexico

Sheet 6 of 8



Legend

- Proposed Centerline
- Existing MAPL System
- Construction Access
- Access Road Improvements
- Hydrostatic Discharge Location

Land Ownership

- BLM
- BOR
- Forest Service
- BIA/Tribal
- State
- State Game and Fish
- Private

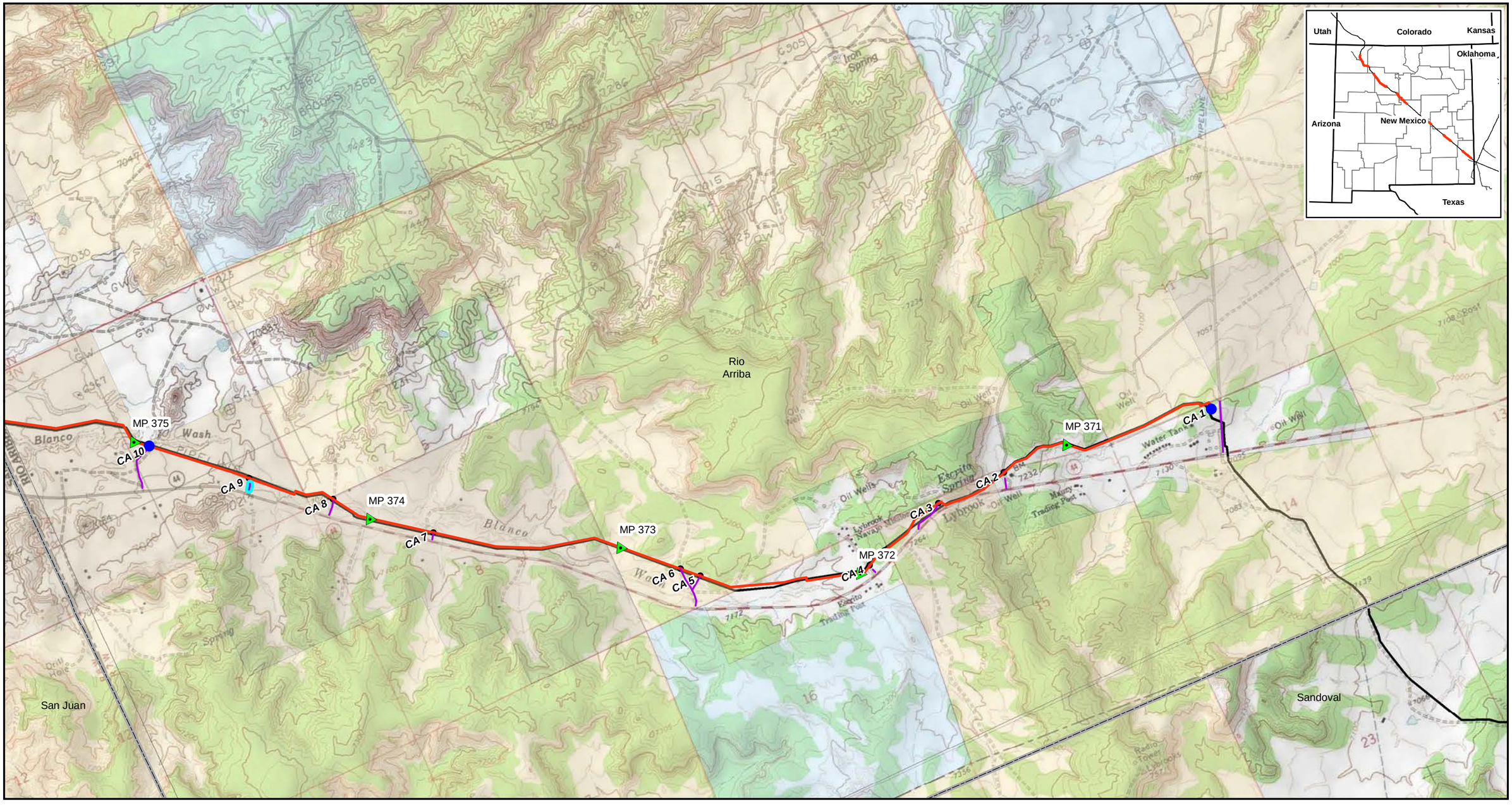
N

2,000 0 2,000 Feet

Mid-America Pipeline

General Location of the WEP III Loop Pipeline Segment 1

San Juan County, New Mexico



Legend

- Proposed Centerline
- Existing MAPL System
- Construction Access
- Access Road Improvements
- Hydrostatic Discharge Location

Land Ownership

- BLM
- BOR
- Forest Service
- BIA/Tribal
- State
- State Game and Fish
- Private

N

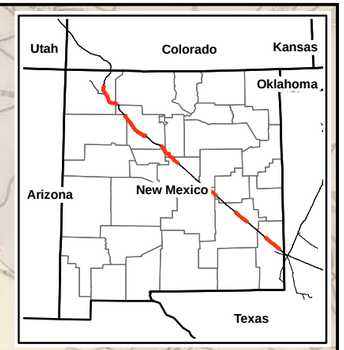
2,000 0 2,000 Feet

Mid-America Pipeline

General Location of the WEP III Loop Pipeline Segment 1

Rio Arriba County, New Mexico

Sheet 8 of 8



Sandoval

McKinley

MP 350

MP 349

MP 348

MP 347

CA-34

Cejita Blanca Ridge

Toledo Arroyo

Encino Wash

CONTINENTAL DIVIDE

Francisco Lake

Legend

- Proposed Centerline
- Existing MAPL System
- Construction Access
- Access Road Improvements
- Hydrostatic Discharge Location

Land Ownership

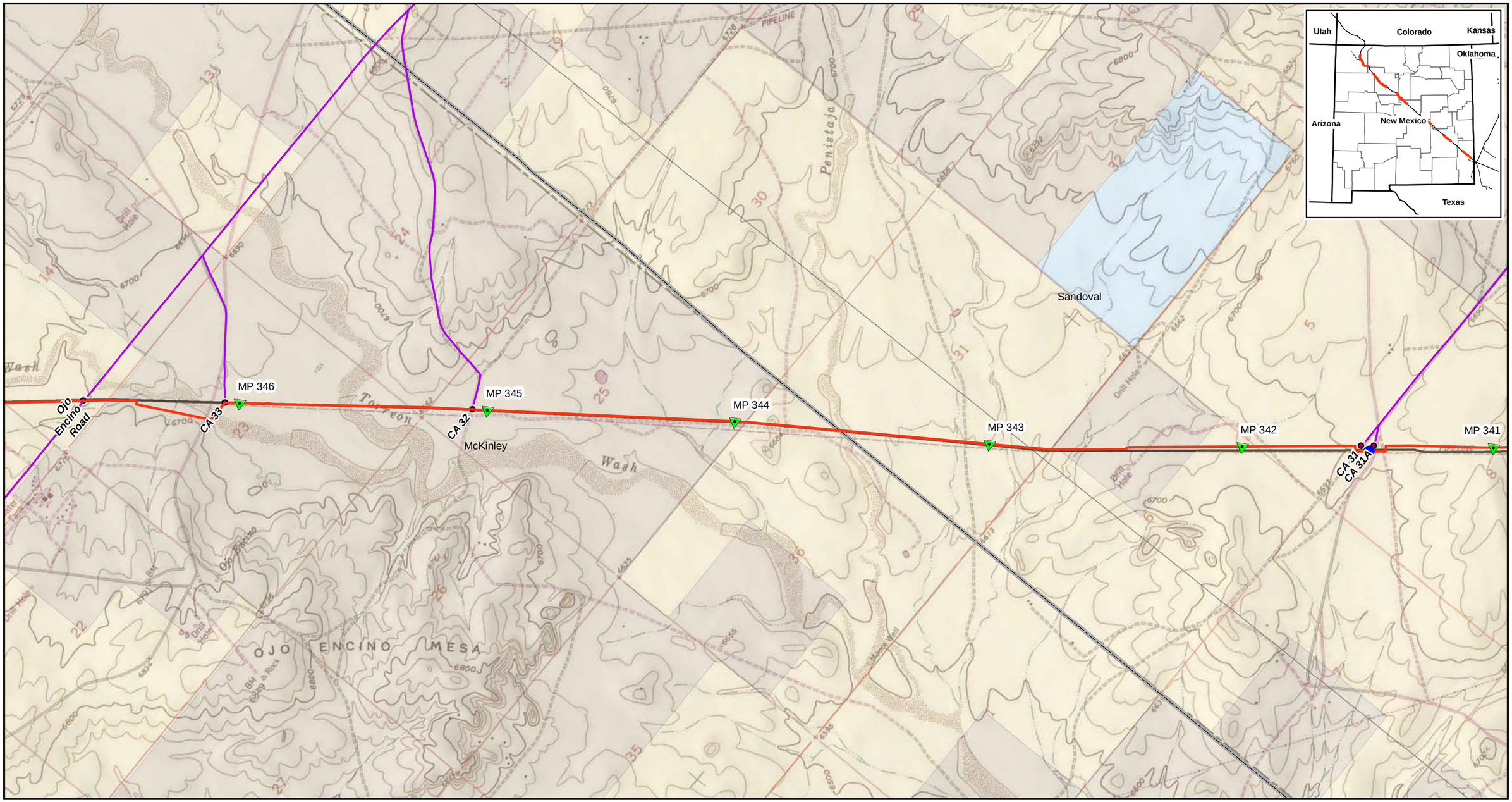
- BLM
- BOR
- Forest Service
- BIA/Tribal
- State
- State Game and Fish
- Private

2,000 0 2,000 Feet

Mid-America Pipeline

General Location of the WEP III Loop Pipeline Segment 2

McKinley County, New Mexico



Legend

- Proposed Centerline
- Existing MAPL System
- Construction Access
- Access Road Improvements
- Hydrostatic Discharge Location

Land Ownership

- BLM
- BOR
- Forest Service
- BIA/Tribal
- State
- State Game and Fish
- Private

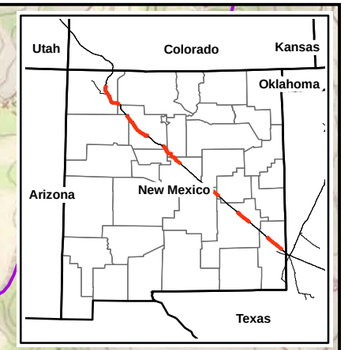
N

2,000 0 2,000
Feet

Mid-America Pipeline

General Location of the WEP III Loop Pipeline Segment 2

Sandoval & McKinley Counties, New Mexico



Sandoval

MP 341
MP 340
MP 339
MP 338
MP 337
MP 336
CA 30
CA 29

Legend

- Proposed Centerline
- Existing MAPL System
- Construction Access
- Access Road Improvements
- Hydrostatic Discharge Location

Land Ownership

- BLM
- BOR
- Forest Service
- BIA/Tribal
- State
- State Game and Fish
- Private

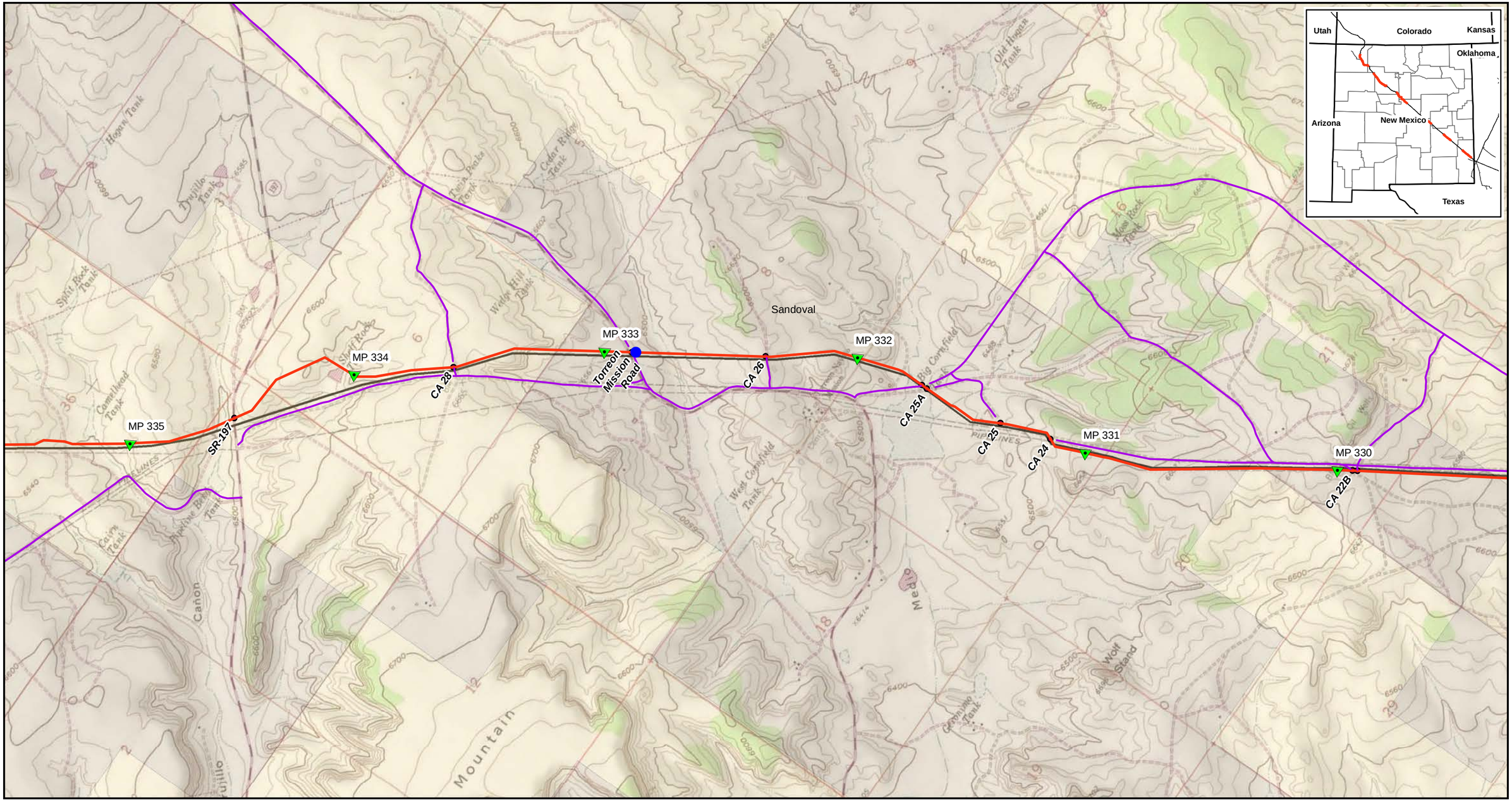
N

2,000 0 2,000
Feet

Mid-America Pipeline

General Location of the WEP III Loop Pipeline Segment 2

Sandoval County, New Mexico



Legend

- Proposed Centerline
- Existing MAPL System
- Construction Access
- Access Road Improvements
- Hydrostatic Discharge Location

Land Ownership

- BLM
- BOR
- Forest Service
- BIA/Tribal
- State
- State Game and Fish
- Private

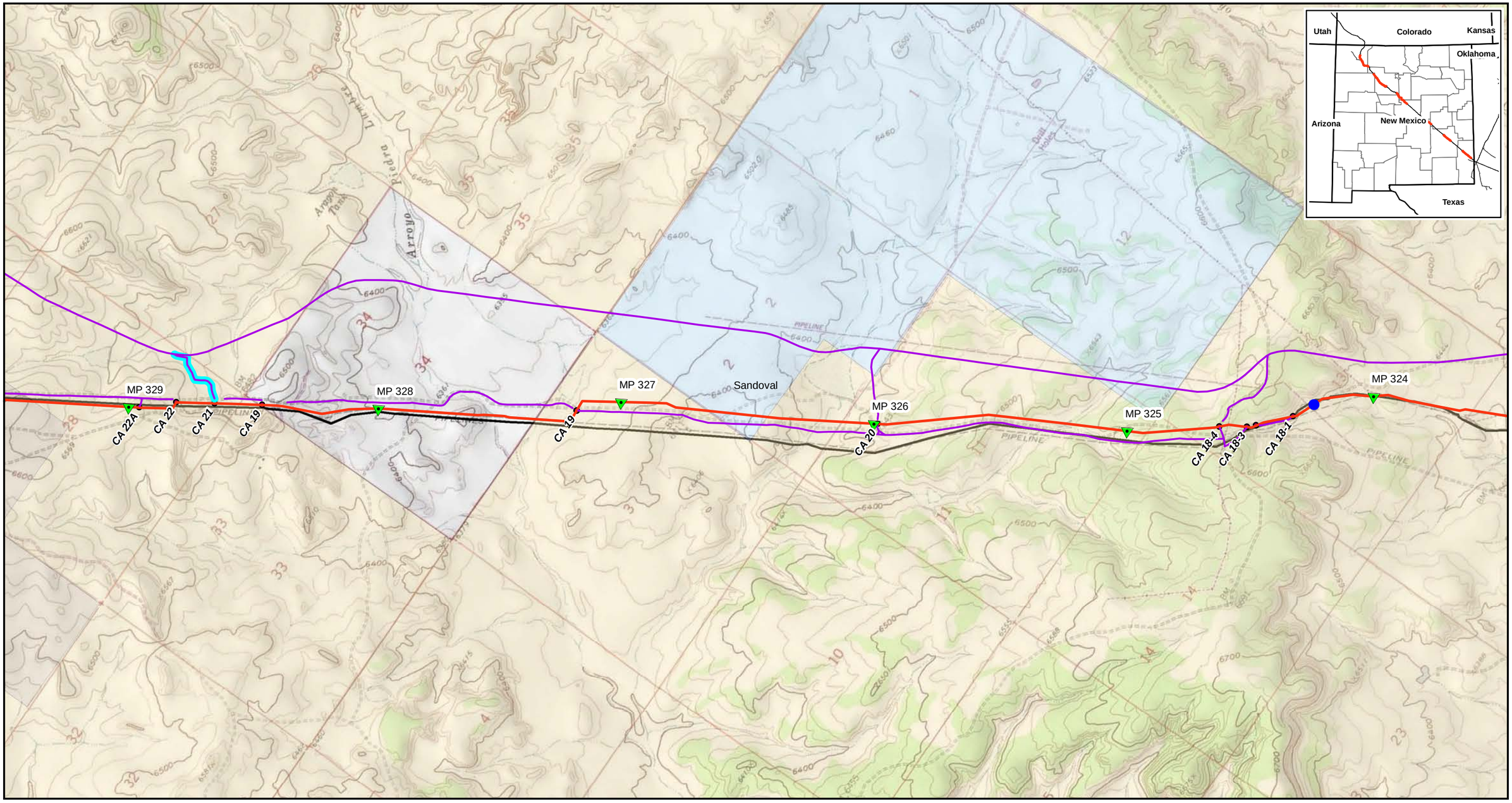
N

2,000 0 2,000 Feet

Mid-America Pipeline

General Location of the WEP III Loop Pipeline Segment 2

Sandoval County, New Mexico



Legend

- Proposed Centerline
- Existing MAPL System
- Construction Access
- Access Road Improvements
- Hydrostatic Discharge Location

Land Ownership

- BLM
- BOR
- Forest Service
- BIA/Tribal
- State
- State Game and Fish
- Private

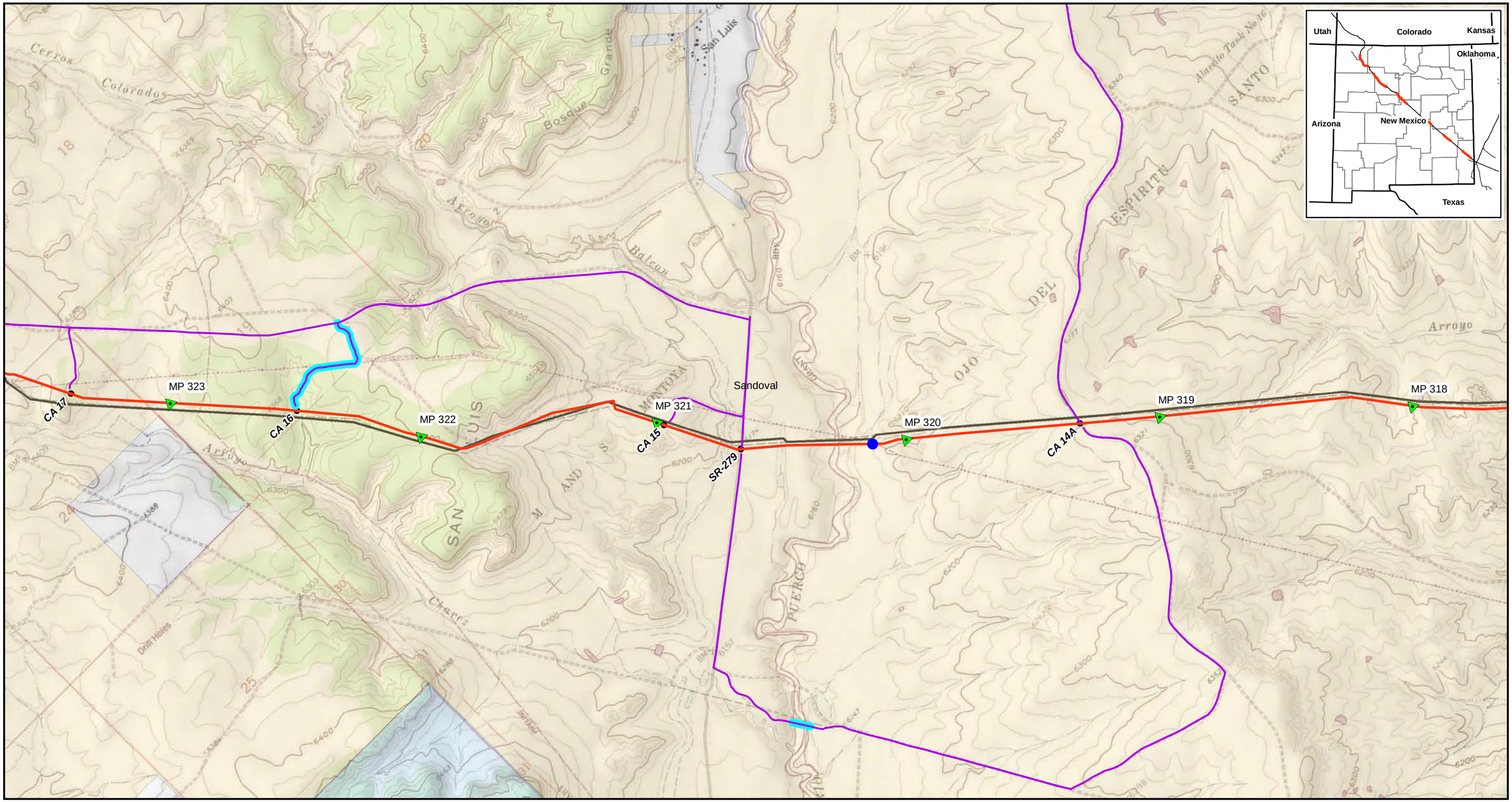
N

2,000 0 2,000 Feet

Mid-America Pipeline

General Location of the WEP III Loop Pipeline Segment 2

Sandoval County, New Mexico



Legend

- Proposed Centerline
- Existing MAPL System
- Construction Access
- Access Road Improvements
- Hydrostatic Discharge Location

Land Ownership

- BLM
- BOR
- Forest Service
- BIA/Tribal
- State
- State Game and Fish
- Private

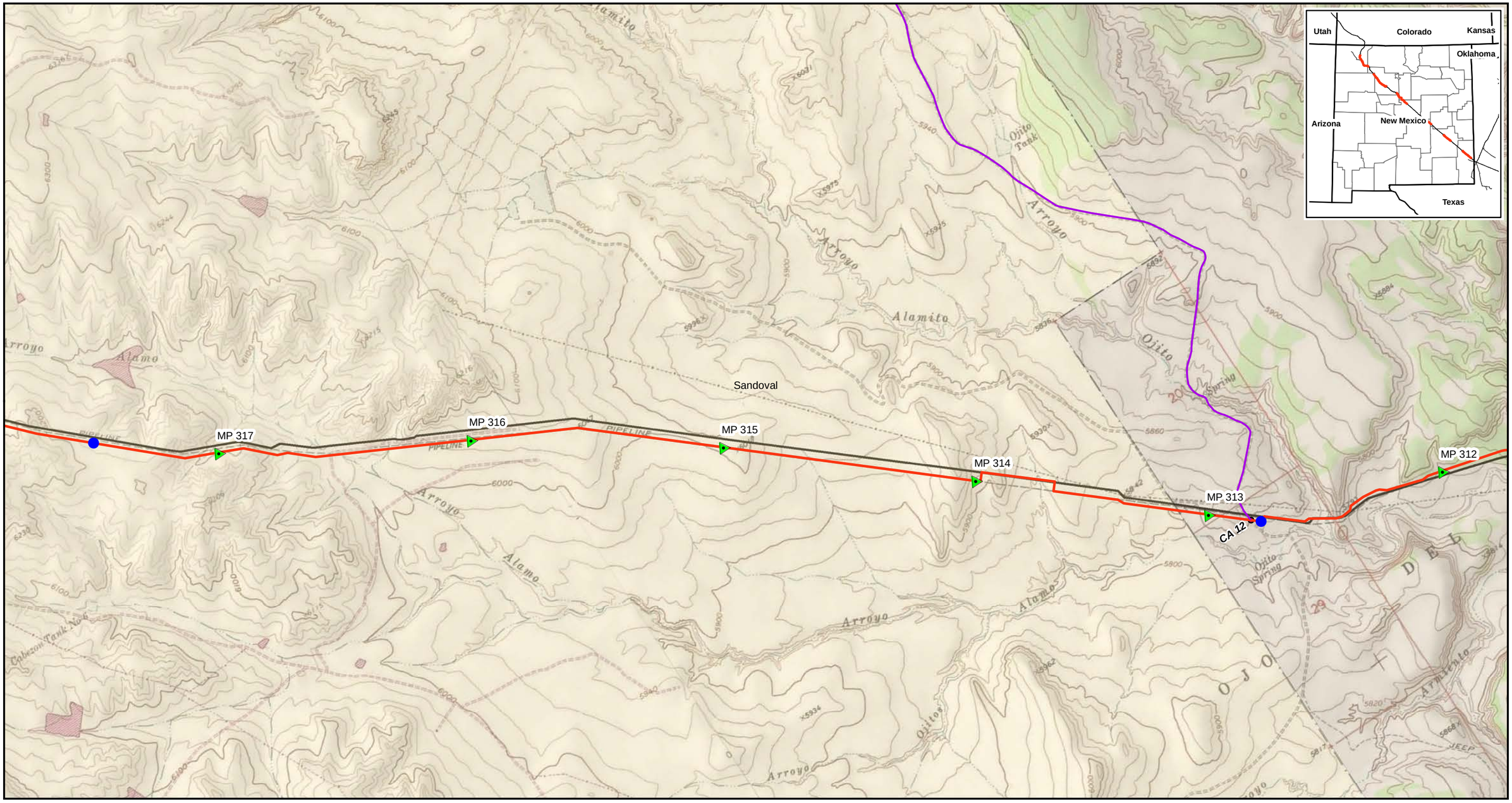
N

2,000 0 2,000
Feet

Mid-America Pipeline

General Location of the WEP III Loop Pipeline Segment 2

Sandoval County, New Mexico



Legend

- Proposed Centerline
- Existing MAPL System
- Construction Access
- Access Road Improvements
- Hydrostatic Discharge Location

Land Ownership

- BLM
- BOR
- Forest Service
- BIA/Tribal
- State
- State Game and Fish
- Private

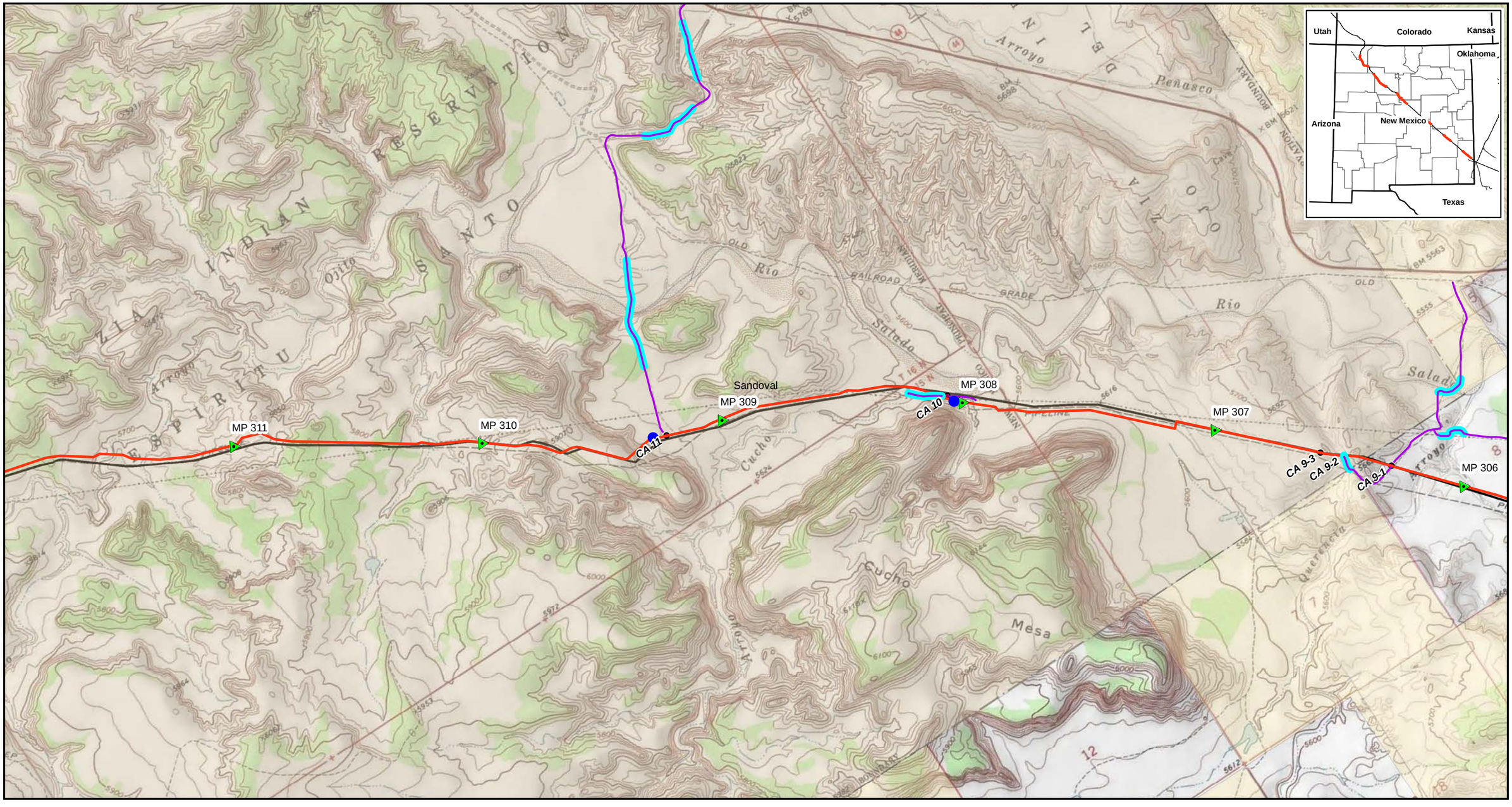
N

2,000 0 2,000
Feet

Mid-America Pipeline

General Location of the WEP III Loop Pipeline Segment 2

Sandoval County, New Mexico



Legend

- Proposed Centerline
- Existing MAPL System
- Construction Access
- Access Road Improvements
- Hydrostatic Discharge Location

Land Ownership

- BLM
- BOR
- Forest Service
- BIA/Tribal
- State
- State Game and Fish
- Private

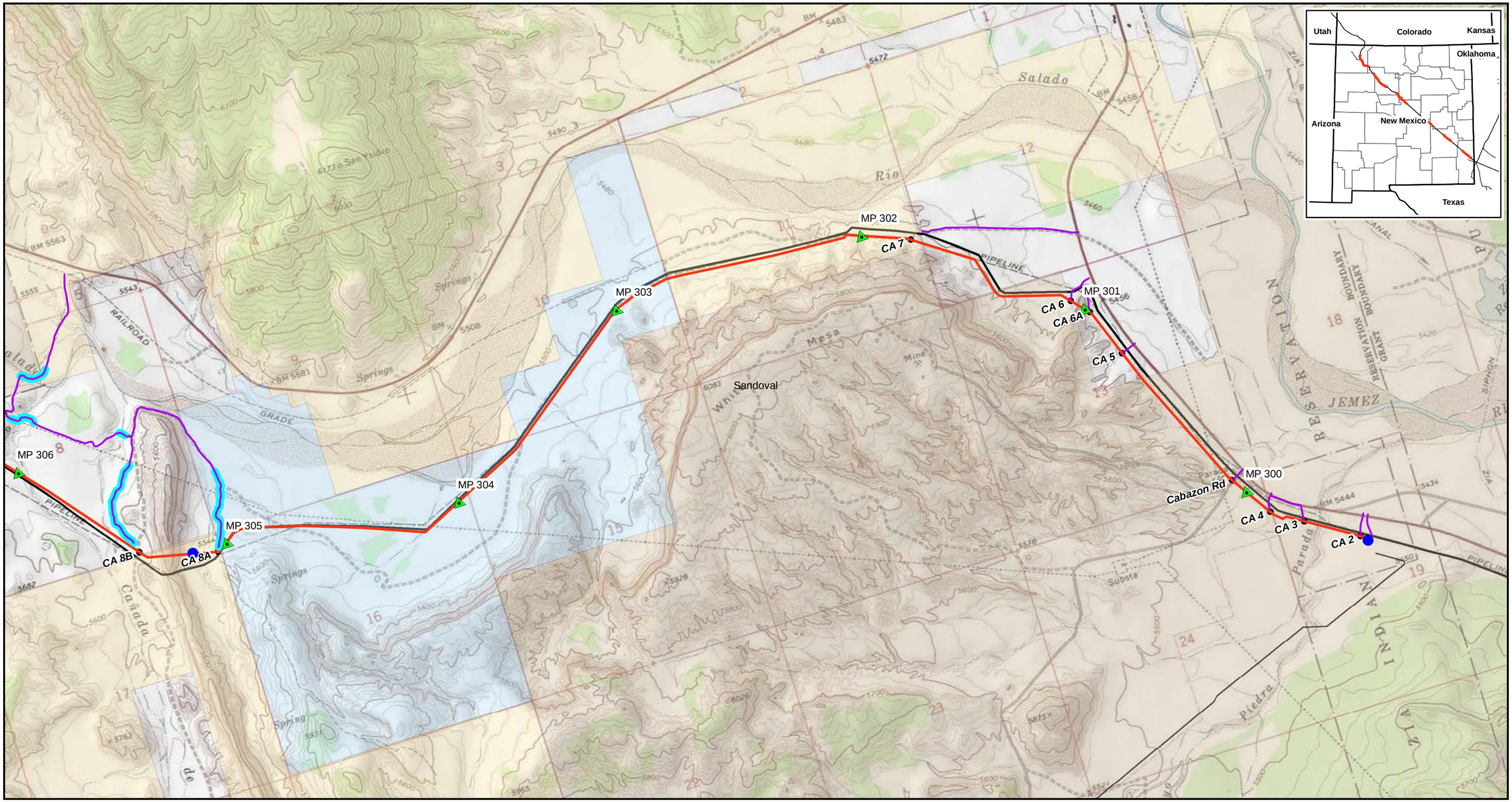
N

2,000 0 2,000
Feet

Mid-America Pipeline

General Location of the WEP III Loop Pipeline Segment 2

Sandoval County, New Mexico



Legend

- Proposed Centerline
- Existing MAPL System
- Construction Access
- Access Road Improvements
- Hydrostatic Discharge Location

Land Ownership

- BLM
- BOR
- Forest Service
- BIA/Tribal
- State
- State Game and Fish
- Private

2,000 0 2,000 Feet

Mid-America Pipeline

General Location of the WEP III Loop Pipeline Segment 2

Sandoval County, New Mexico

Legend

- Proposed Centerline
- Existing MAPL System
- Construction Access
- Access Road Improvements
- Hydrostatic Discharge Location

Land Ownership

- BLM
- BOR
- Forest Service
- BIA/Tribal
- State
- State Game and Fish
- Private

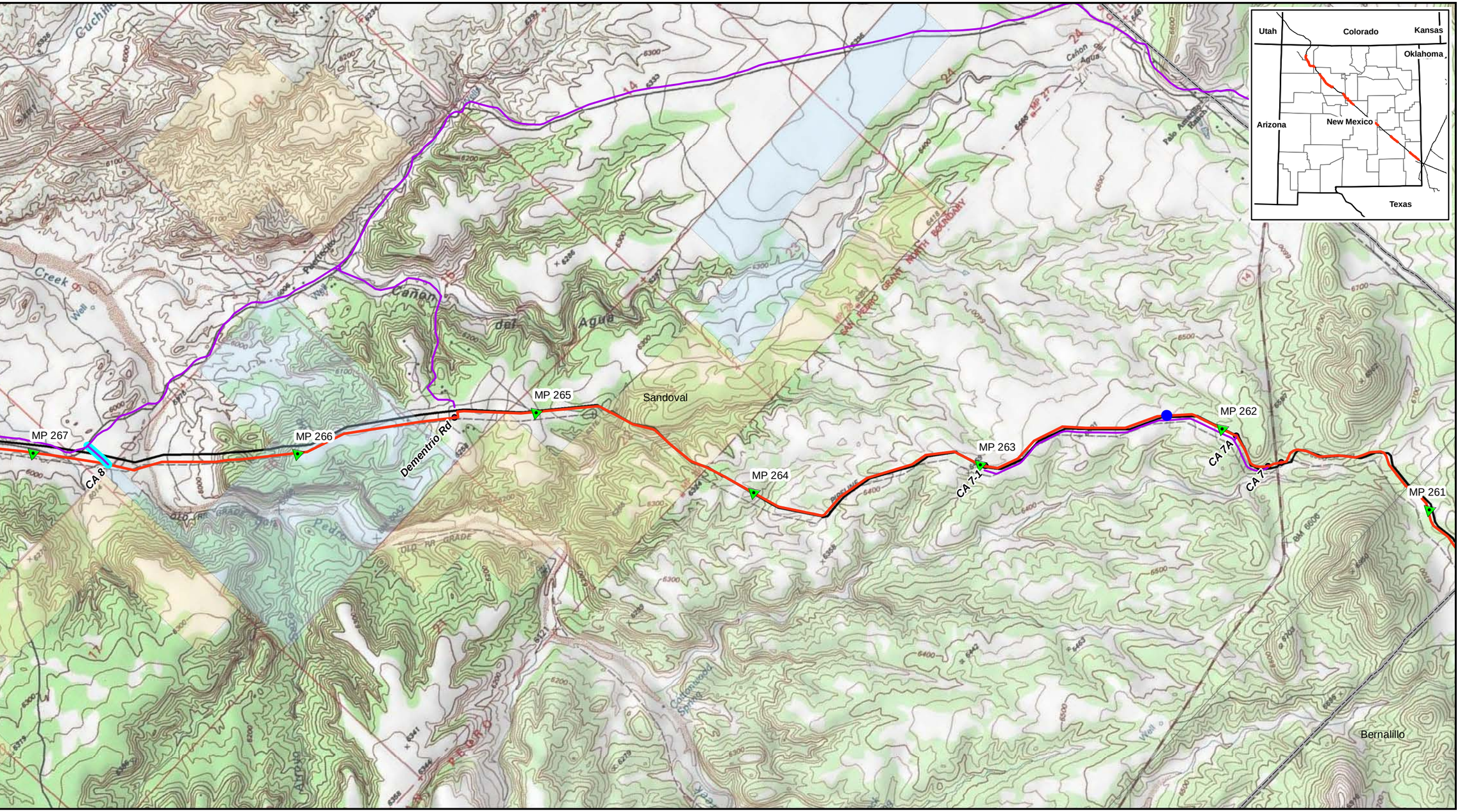
N

2,000 0 2,000
Feet

Mid-America Pipeline

General Location of the WEP III Loop Pipeline Segment 3

Sandoval County, New Mexico



Legend

- Proposed Centerline
- Existing MAPL System
- Construction Access
- Access Road Improvements
- Hydrostatic Discharge Location

Land Ownership

- BLM
- BOR
- Forest Service
- BIA/Tribal
- State
- State Game and Fish
- Private

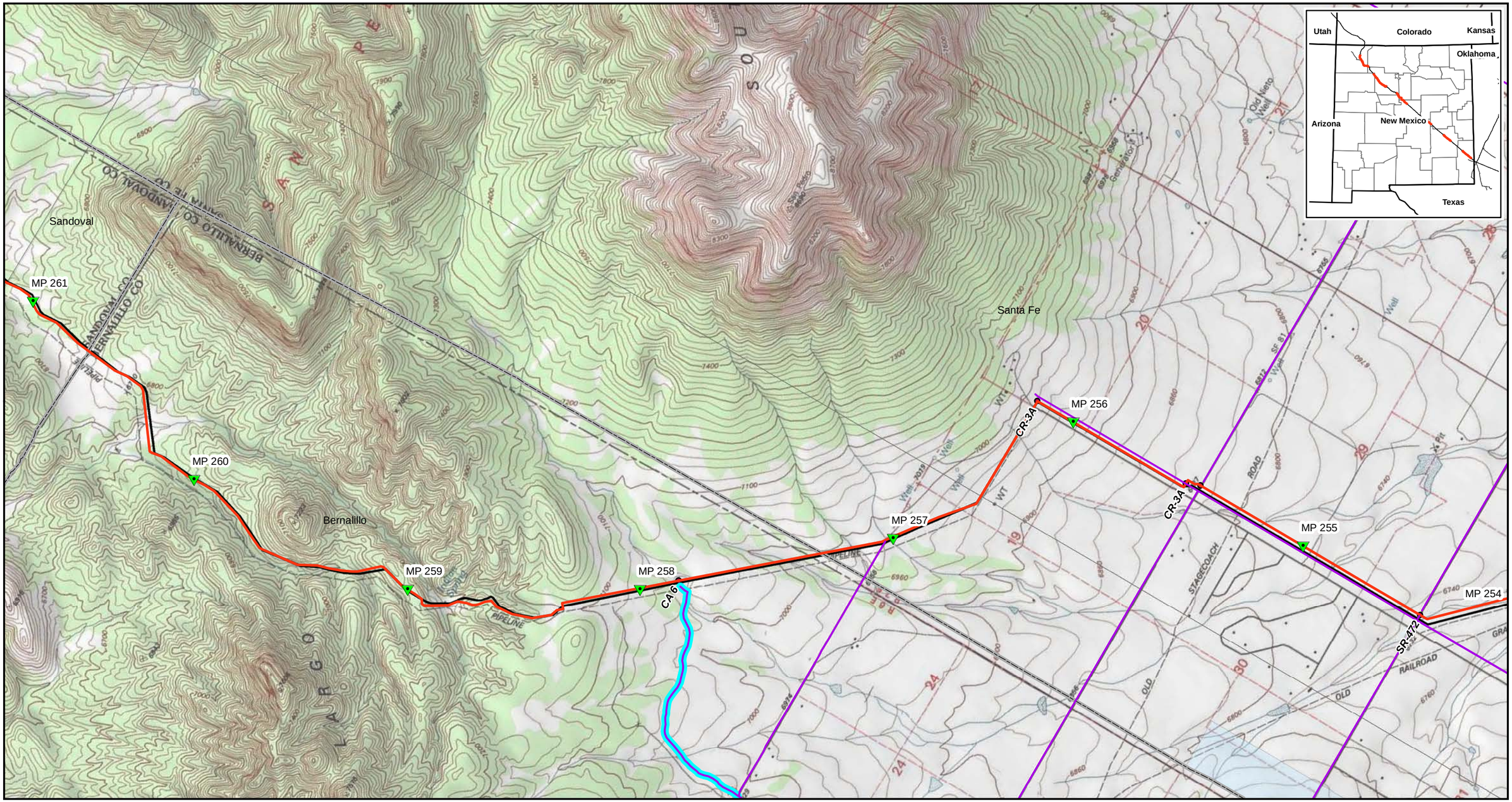
N

2,000 0 2,000
Feet

Mid-America Pipeline

General Location of the WEP III Loop Pipeline Segment 3

Sandoval County, New Mexico



Legend

- Proposed Centerline
- Existing MAPL System
- Construction Access
- Access Road Improvements
- Hydrostatic Discharge Location

Land Ownership

- BLM
- BOR
- Forest Service
- BIA/Tribal
- State
- State Game and Fish
- Private

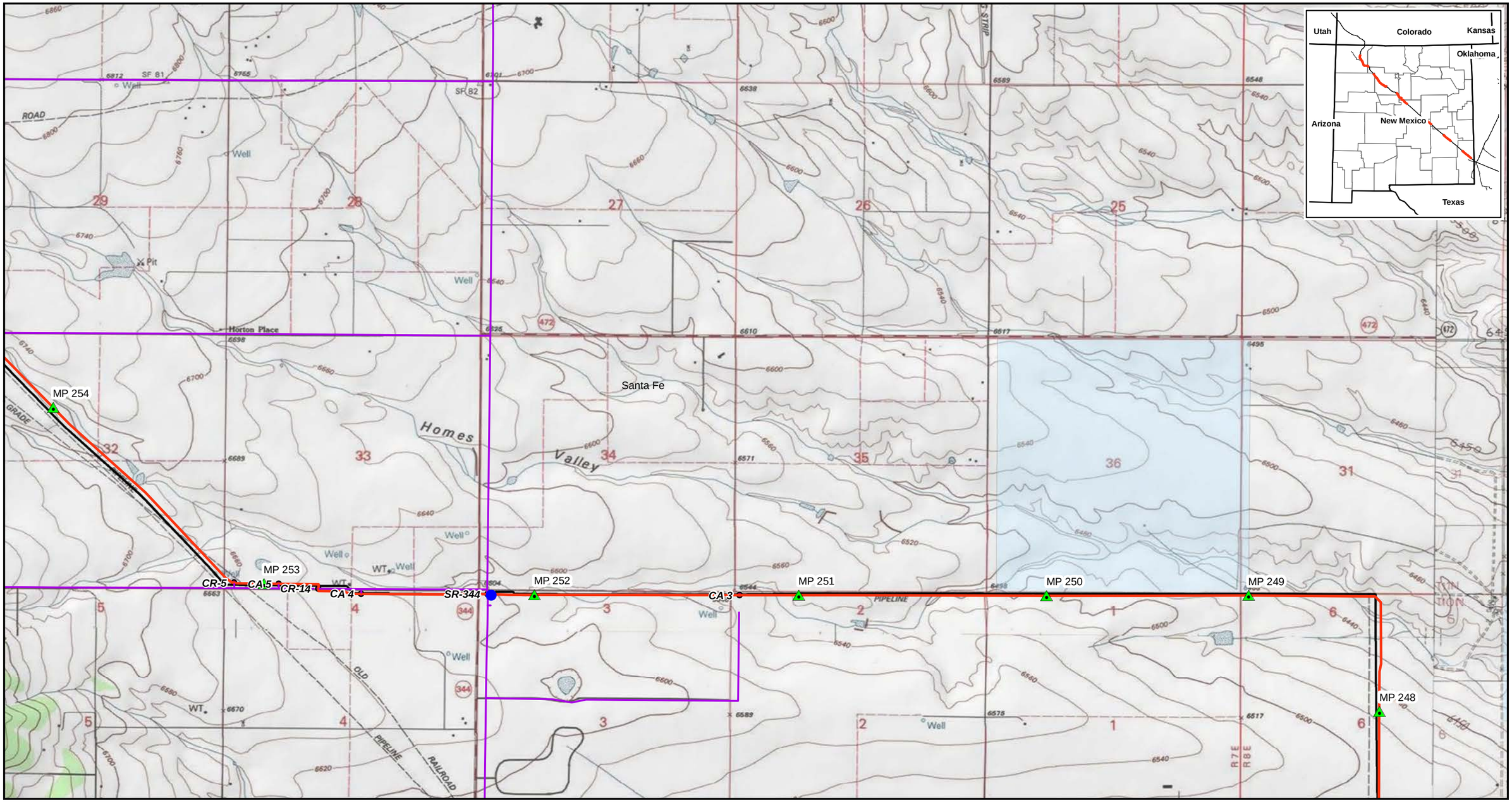
N

2,000 0 2,000
Feet

Mid-America Pipeline

General Location of the WEP III Loop Pipeline Segment 3

Santa Fe & Bernalillo Counties, New Mexico



Legend

- Proposed Centerline
- Existing MAPL System
- Construction Access
- Access Road Improvements
- Hydrostatic Discharge Location

Land Ownership

- BLM
- BOR
- Forest Service
- BIA/Tribal
- State
- State Game and Fish
- Private

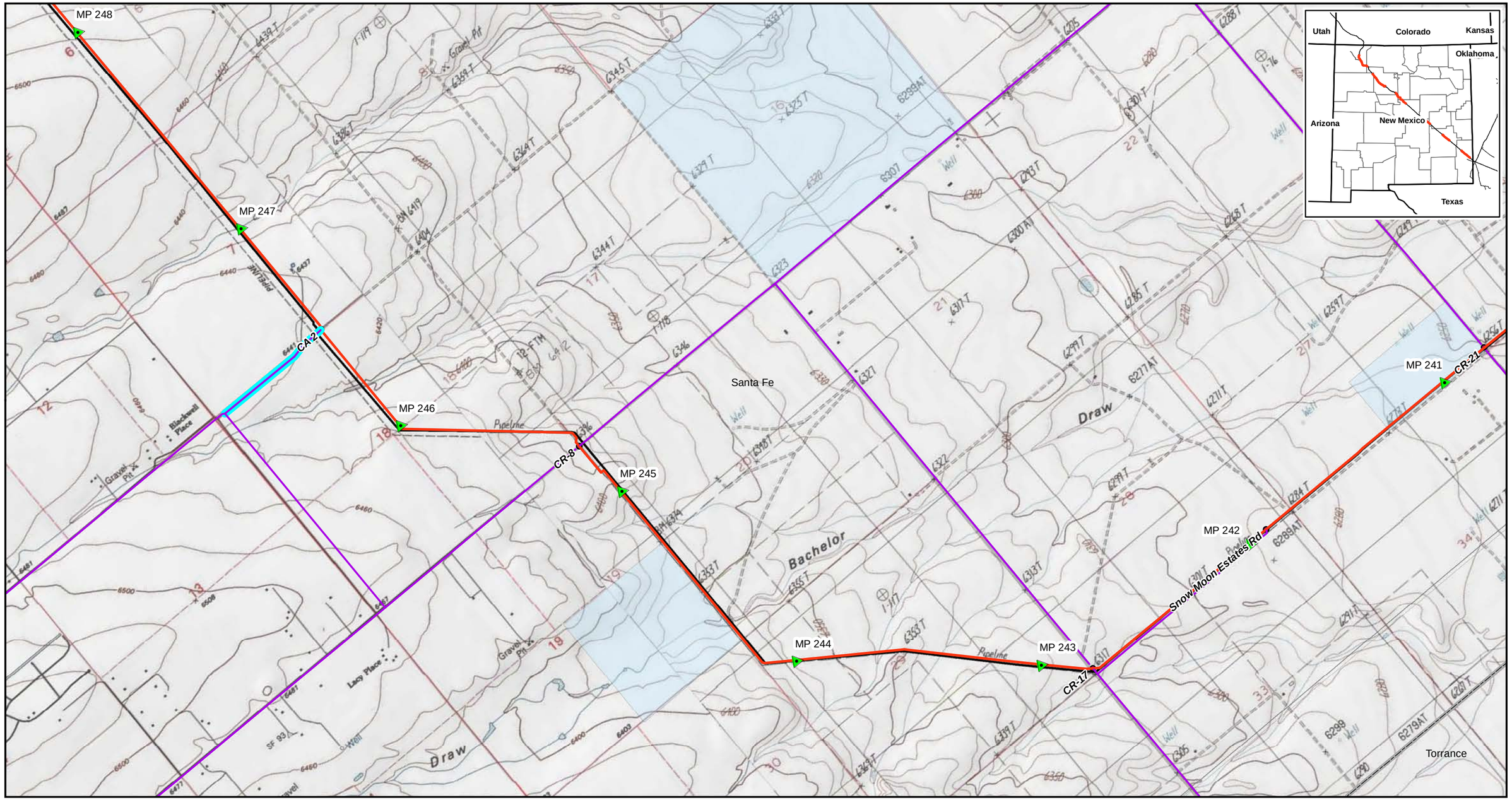
N

2,000 0 2,000 Feet

Mid-America Pipeline

General Location of the WEP III Loop Pipeline Segment 3

Santa Fe County, New Mexico



Legend

- Proposed Centerline
- Existing MAPL System
- Construction Access
- Access Road Improvements
- Hydrostatic Discharge Location

Land Ownership

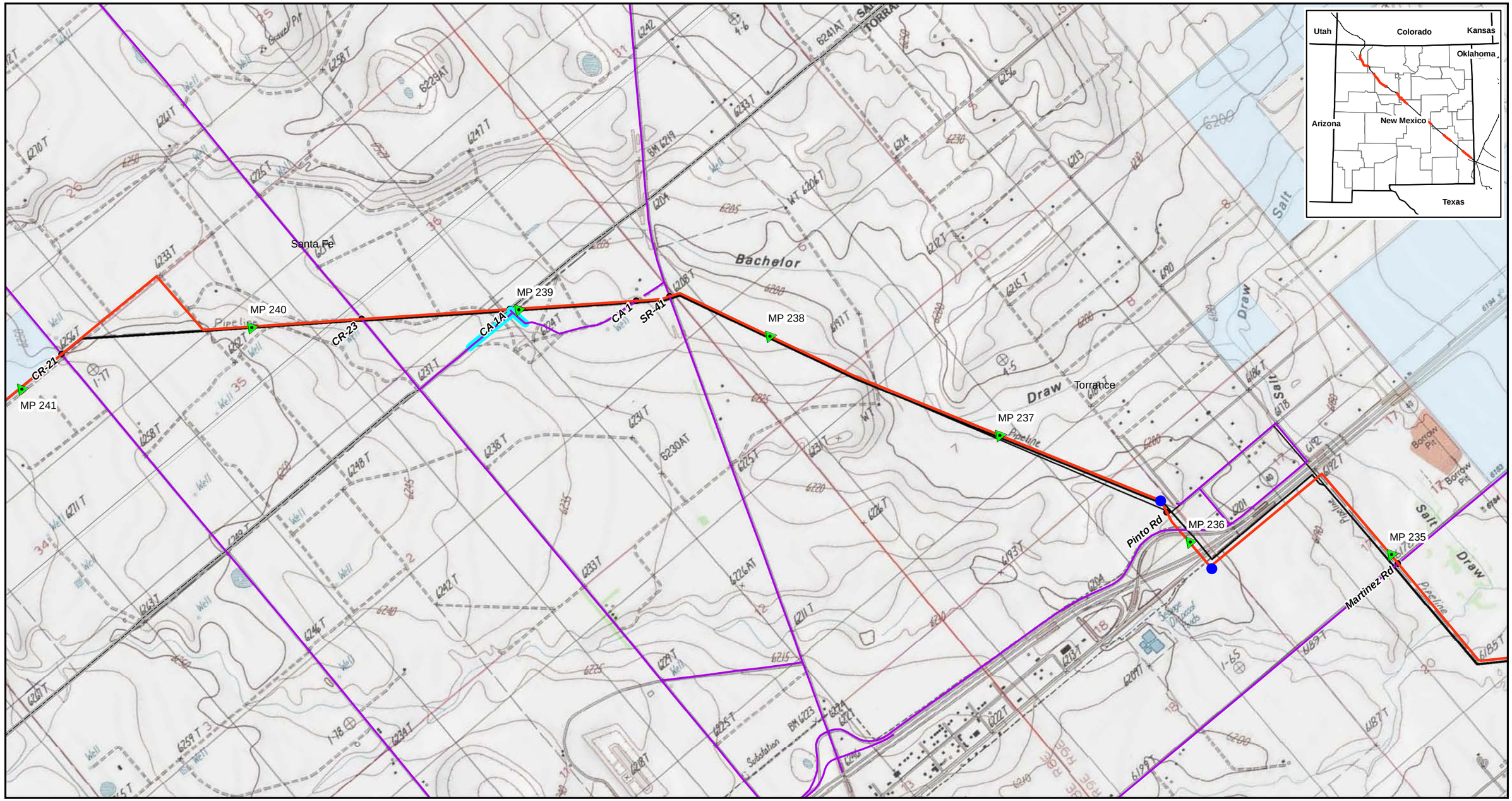
- BLM
- BOR
- Forest Service
- BIA/Tribal
- State
- State Game and Fish
- Private

2,000 0 2,000 Feet

Mid-America Pipeline

General Location of the WEP III Loop Pipeline Segment 3

Santa Fe County, New Mexico



Legend

- Proposed Centerline
- Existing MAPL System
- Construction Access
- Access Road Improvements
- Hydrostatic Discharge Location

Land Ownership

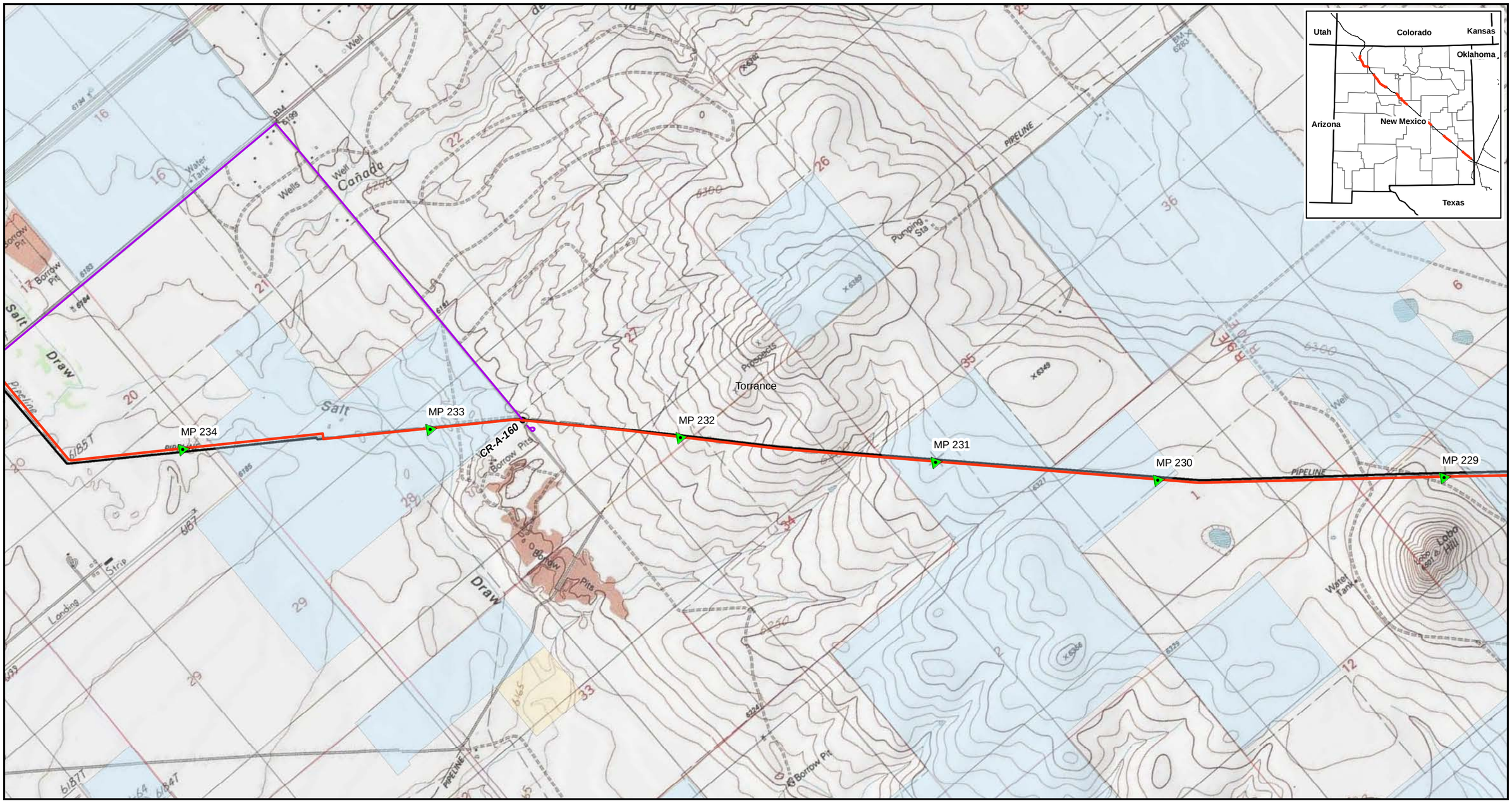
- BLM
- BOR
- Forest Service
- BIA/Tribal
- State
- State Game and Fish
- Private

2,000 0 2,000 Feet

Mid-America Pipeline

General Location of the WEP III Loop Pipeline Segment 3

Torrance & Santa Fe Counties, New Mexico



Legend

- Proposed Centerline
- Existing MAPL System
- Construction Access
- Access Road Improvements
- Hydrostatic Discharge Location

Land Ownership

- BLM
- BOR
- Forest Service
- BIA/Tribal
- State
- State Game and Fish
- Private

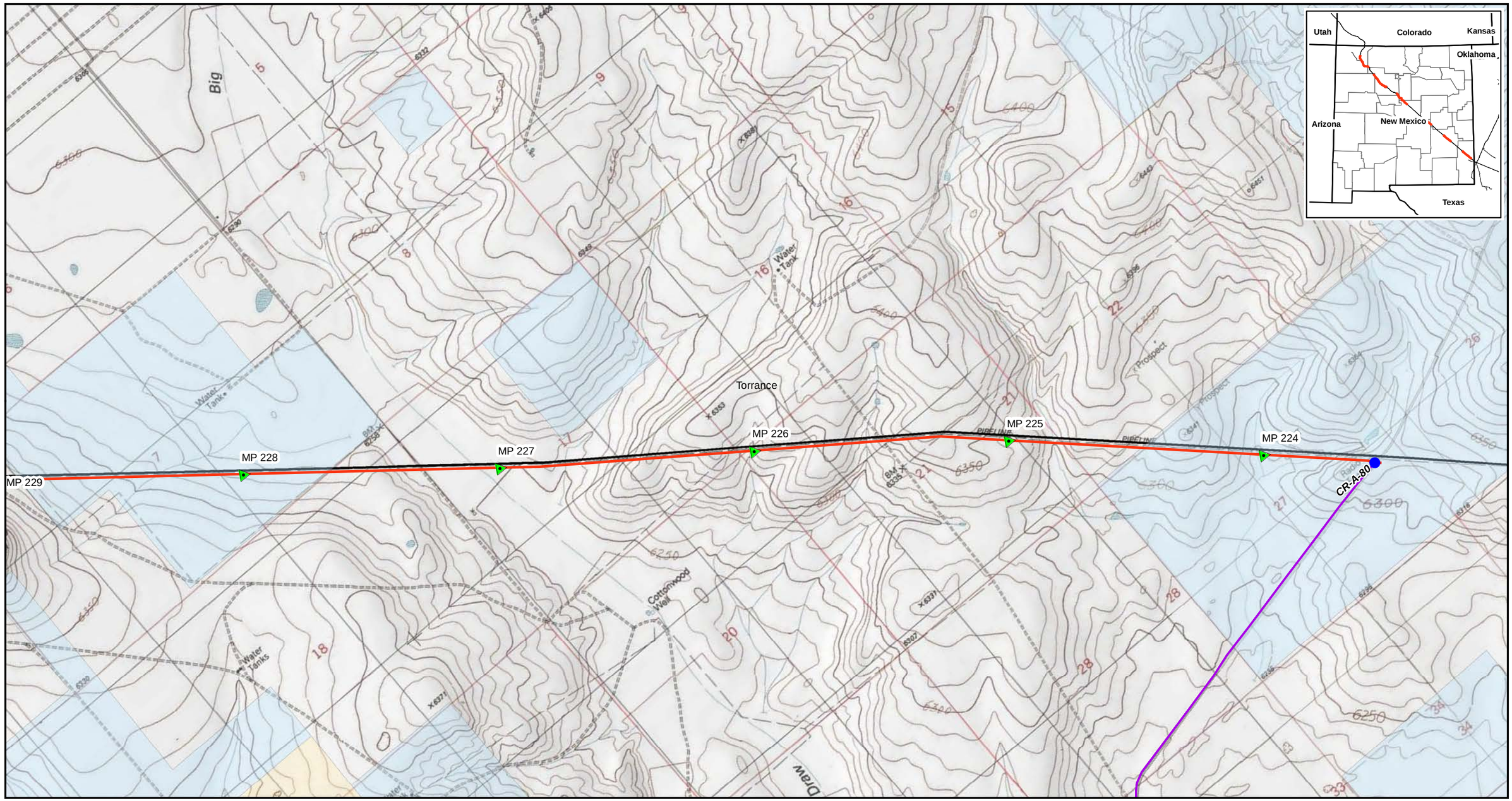
N

2,000 0 2,000 Feet

Mid-America Pipeline

General Location of the WEP III Loop Pipeline Segment 3

Torrance County, New Mexico



Legend

- Proposed Centerline
- Existing MAPL System
- Construction Access
- Access Road Improvements
- Hydrostatic Discharge Location

Land Ownership

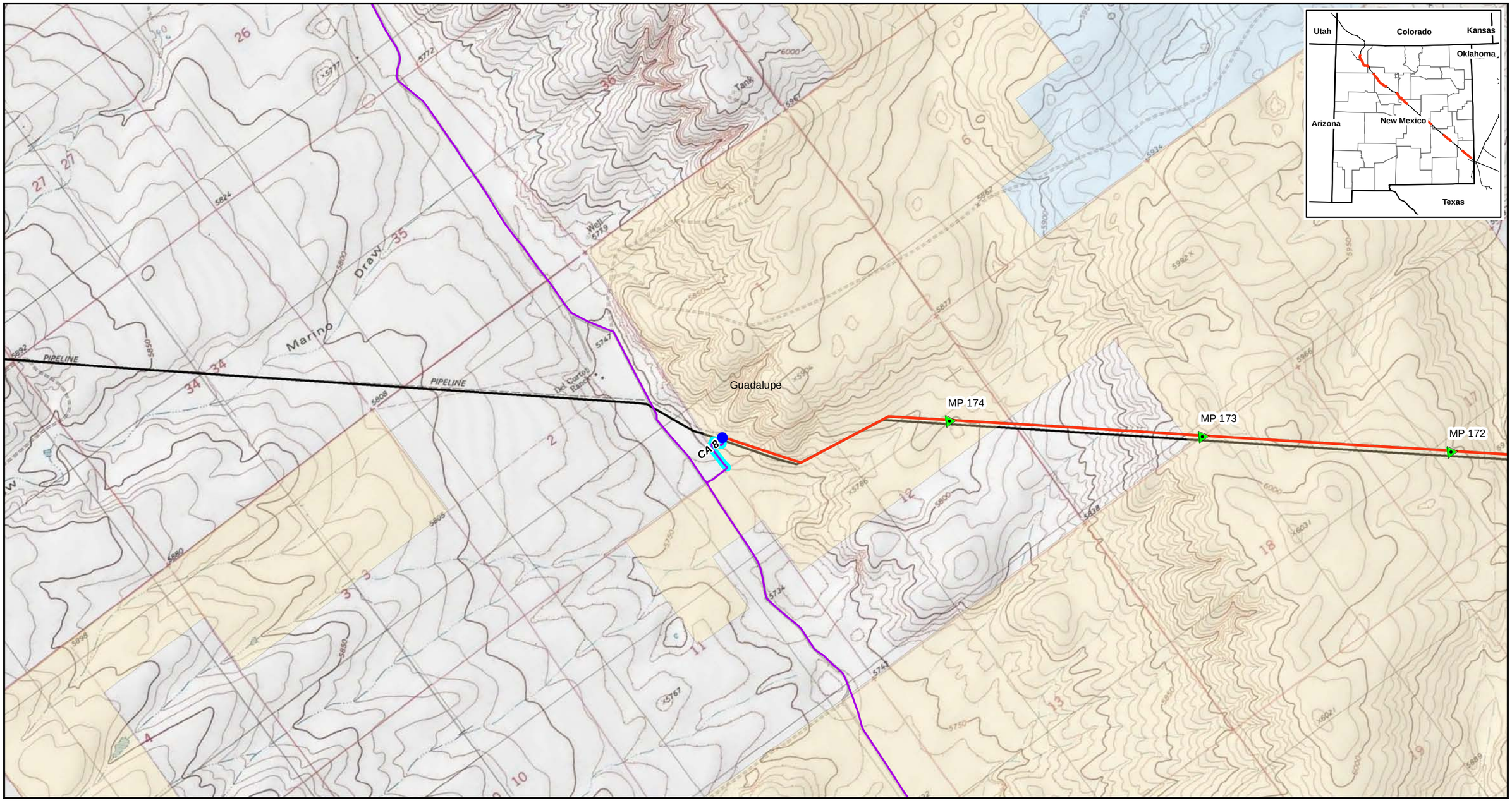
- BLM
- BOR
- Forest Service
- BIA/Tribal
- State
- State Game and Fish
- Private

2,000 0 2,000 Feet

Mid-America Pipeline

General Location of the WEP III Loop Pipeline Segment 3

Torrance County, New Mexico



Legend

- Proposed Centerline
- Existing MAPL System
- Construction Access
- Access Road Improvements
- Hydrostatic Discharge Location

Land Ownership

- BLM
- BOR
- Forest Service
- BIA/Tribal
- State
- State Game and Fish
- Private

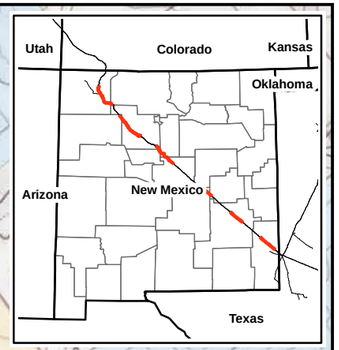
N

2,000 0 2,000
Feet

Mid-America Pipeline

General Location of the WEP III Loop Pipeline Segment 5

Guadalupe County, New Mexico



MP 172

MP 171

MP 170

MP 169

MP 168

MP 167

CA-7

CR-3KA

PIPELINE

PIPELINE

Guadalupe

Lincoln

GUADALUPE CO
LINCOLN CO

GUADALUPE CO
LINCOLN CO

Legend

- Proposed Centerline
- Existing MAPL System
- Construction Access
- Access Road Improvements
- Hydrostatic Discharge Location

Land Ownership

- BLM
- BOR
- Forest Service
- BIA/Tribal
- State
- State Game and Fish
- Private

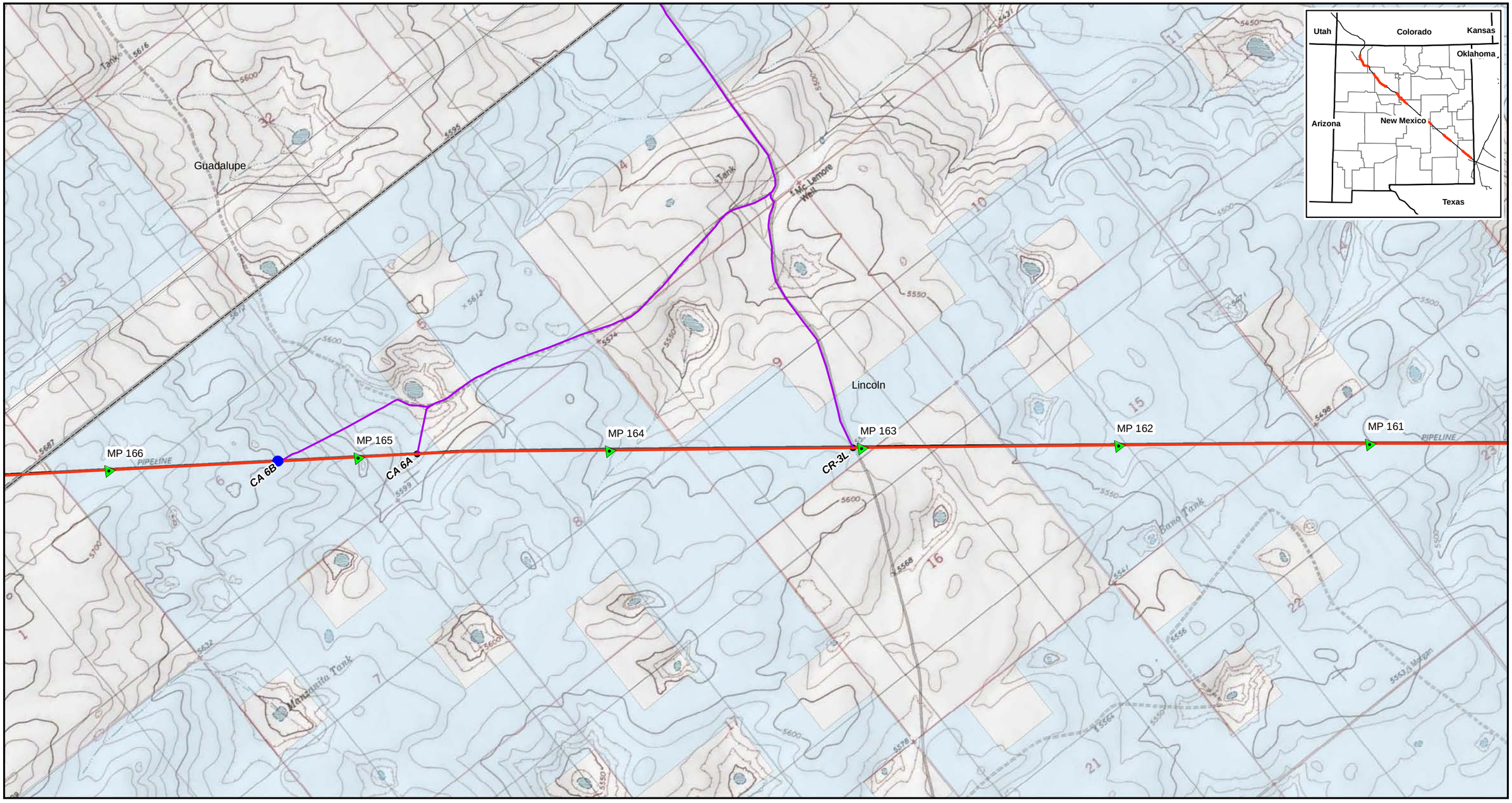
N

2,000 0 2,000
Feet

Mid-America Pipeline

General Location of the WEP III Loop Pipeline Segment 5

Lincoln & Guadalupe Counties, New Mexico



Legend

- Proposed Centerline
- Existing MAPL System
- Construction Access
- Access Road Improvements
- Hydrostatic Discharge Location

Land Ownership

- BLM
- BOR
- Forest Service
- BIA/Tribal
- State
- State Game and Fish
- Private

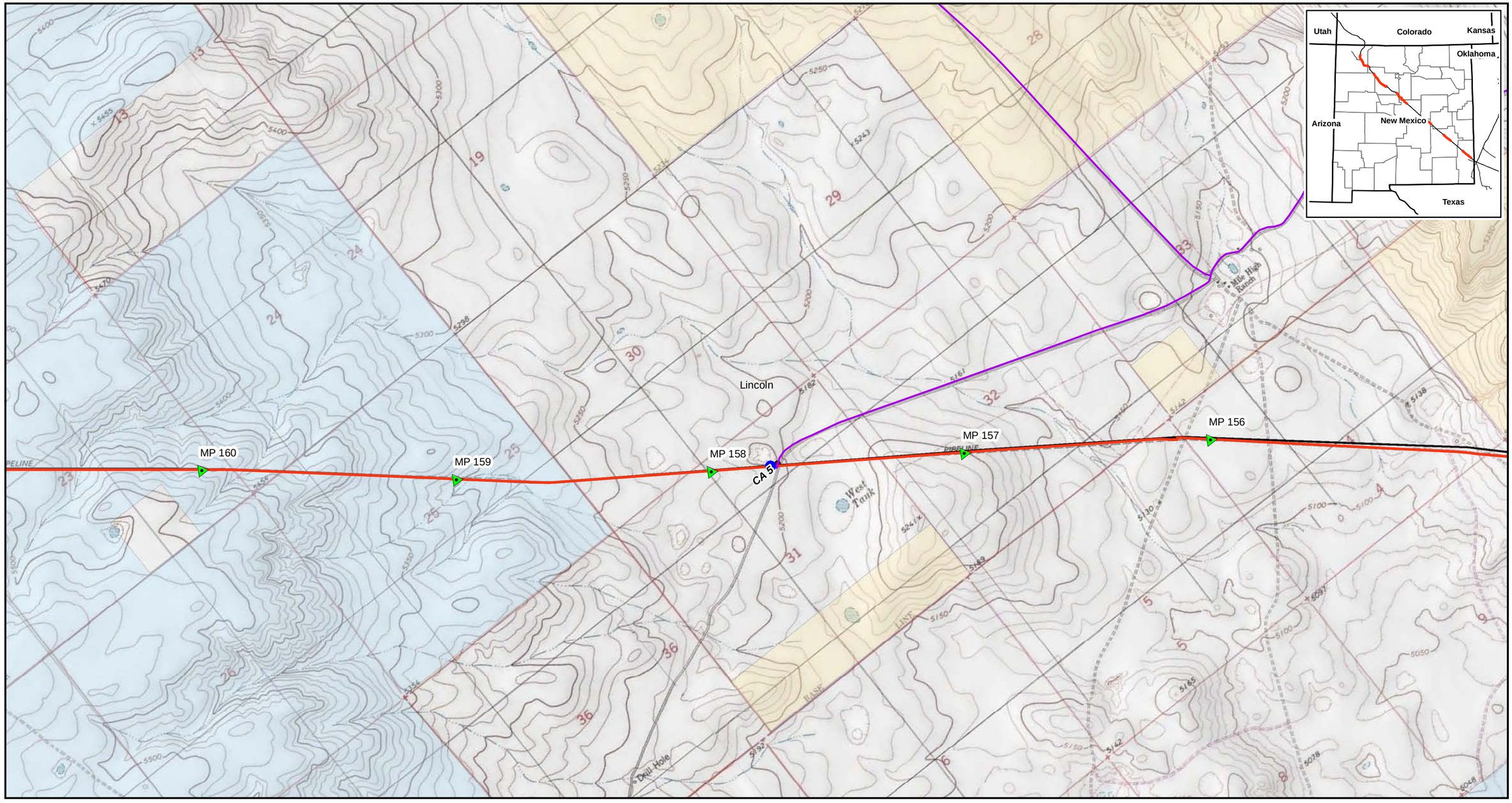
N

2,000 0 2,000
Feet

Mid-America Pipeline

General Location of the WEP III Loop Pipeline Segment 5

Lincoln County, New Mexico **Sheet 3 of 6**



Legend

- Proposed Centerline
- Existing MAPL System
- Construction Access
- Access Road Improvements
- Hydrostatic Discharge Location

Land Ownership

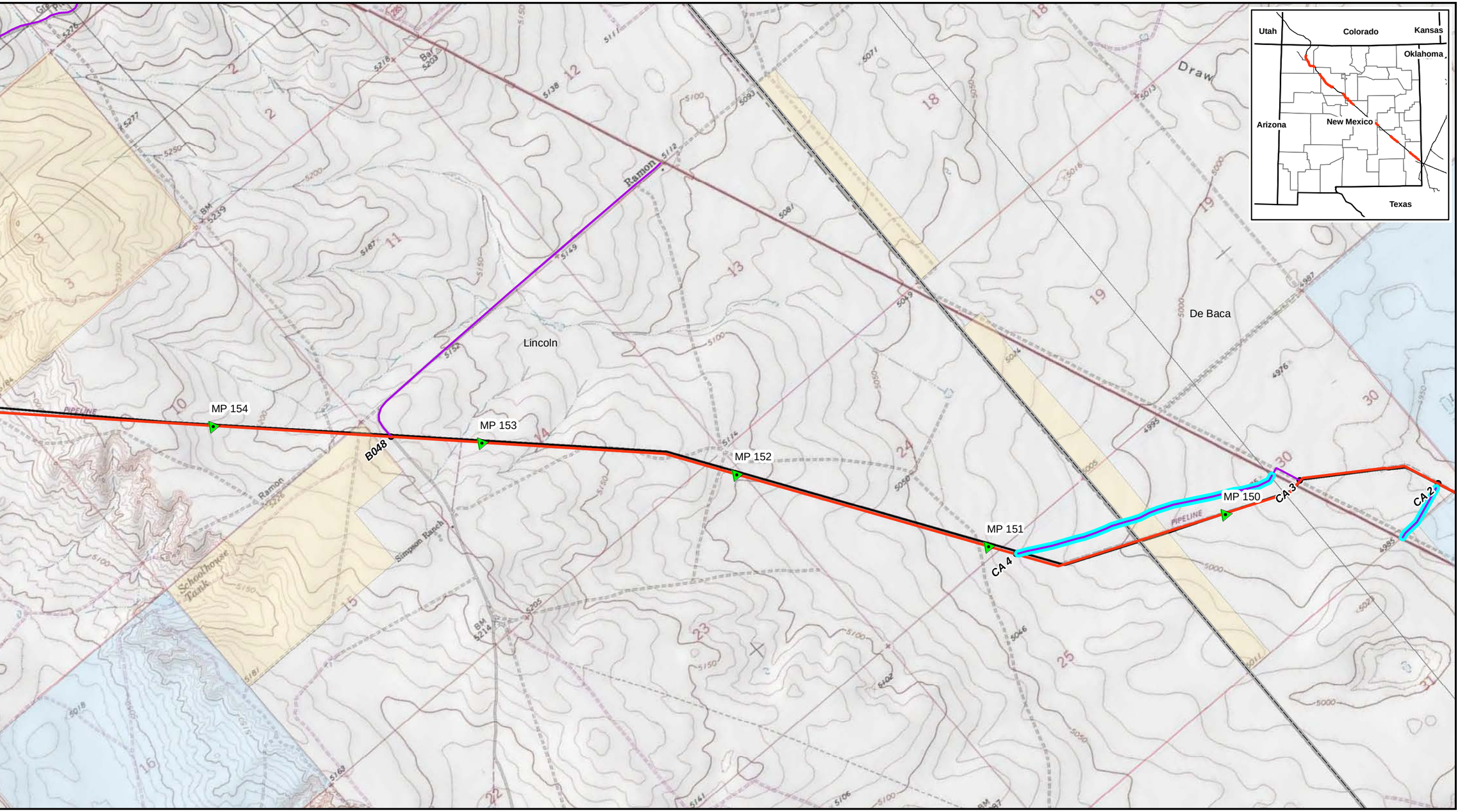
- BLM
- BOR
- Forest Service
- BIA/Tribal
- State
- State Game and Fish
- Private

2,000 0 2,000 Feet

Mid-America Pipeline

General Location of the WEP III Loop Pipeline Segment 5

Lincoln County, New Mexico



Legend

- Proposed Centerline
- Existing MAPL System
- Construction Access
- Access Road Improvements
- Hydrostatic Discharge Location

Land Ownership

- BLM
- BOR
- Forest Service
- BIA/Tribal
- State
- State Game and Fish
- Private

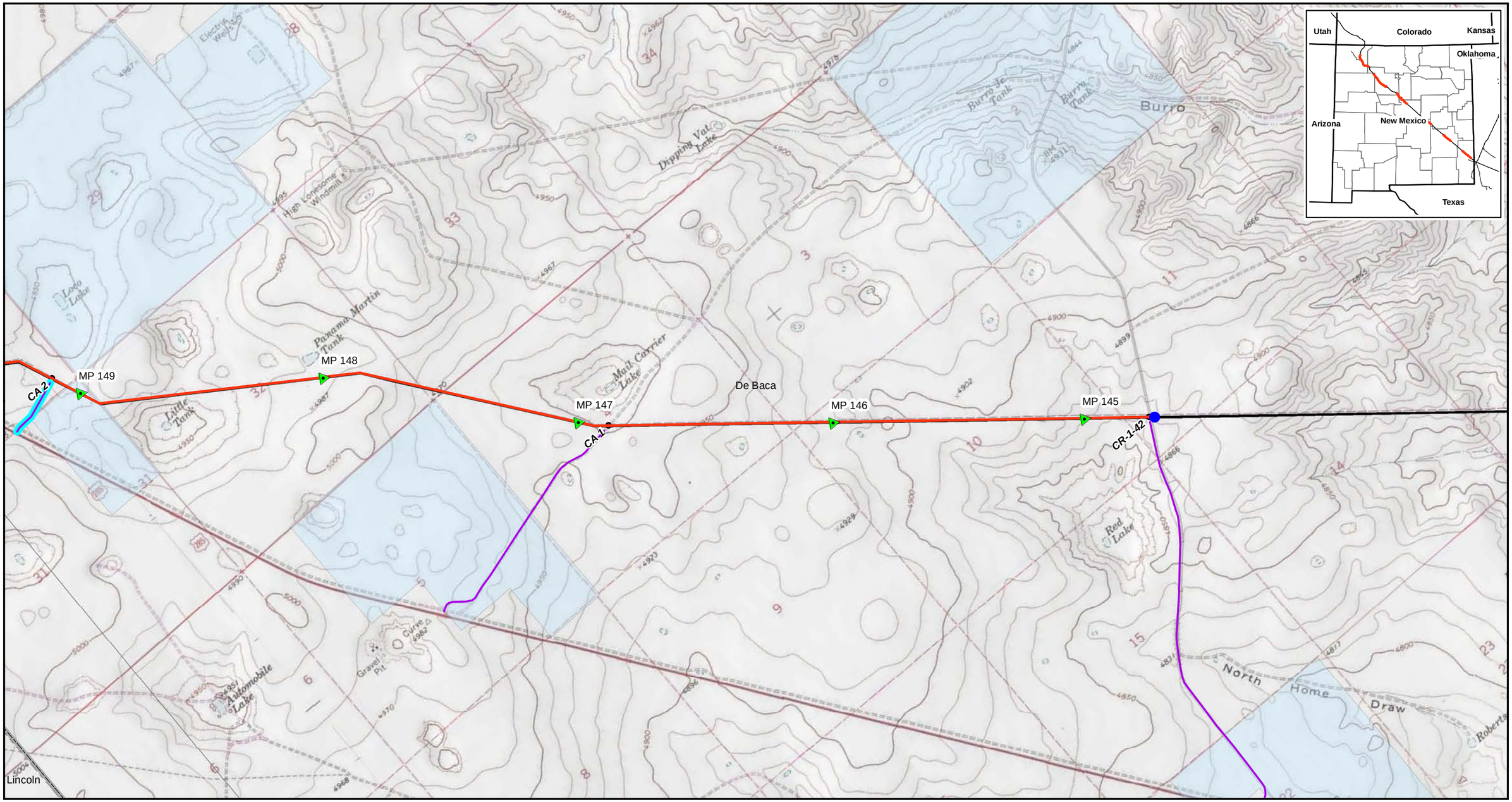
N

2,000 0 2,000 Feet

Mid-America Pipeline

General Location of the WEP III Loop Pipeline Segment 5

De Baca & Lincoln Counties, New Mexico



Legend

- Proposed Centerline
- Existing MAPL System
- Construction Access
- Access Road Improvements
- Hydrostatic Discharge Location

Land Ownership

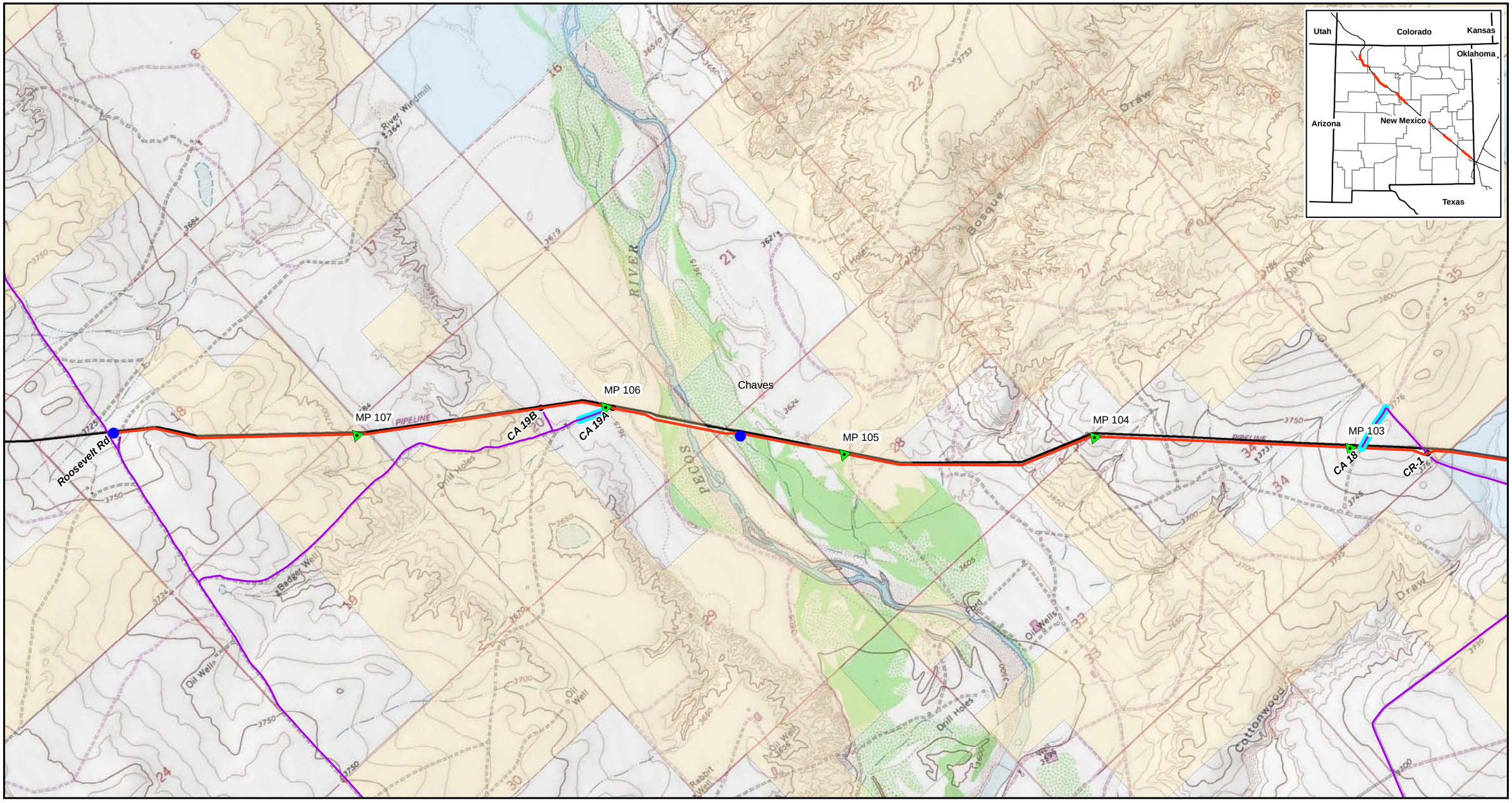
- BLM
- BOR
- Forest Service
- BIA/Tribal
- State
- State Game and Fish
- Private

2,000 0 2,000
Feet

Mid-America Pipeline

General Location of the WEP III Loop Pipeline Segment 5

De Baca County, New Mexico



Legend

- Proposed Centerline
- Existing MAPL System
- Construction Access
- Access Road Improvements
- Hydrostatic Discharge Location

Land Ownership

- BLM
- BOR
- Forest Service
- BIA/Tribal
- State
- State Game and Fish
- Private

N

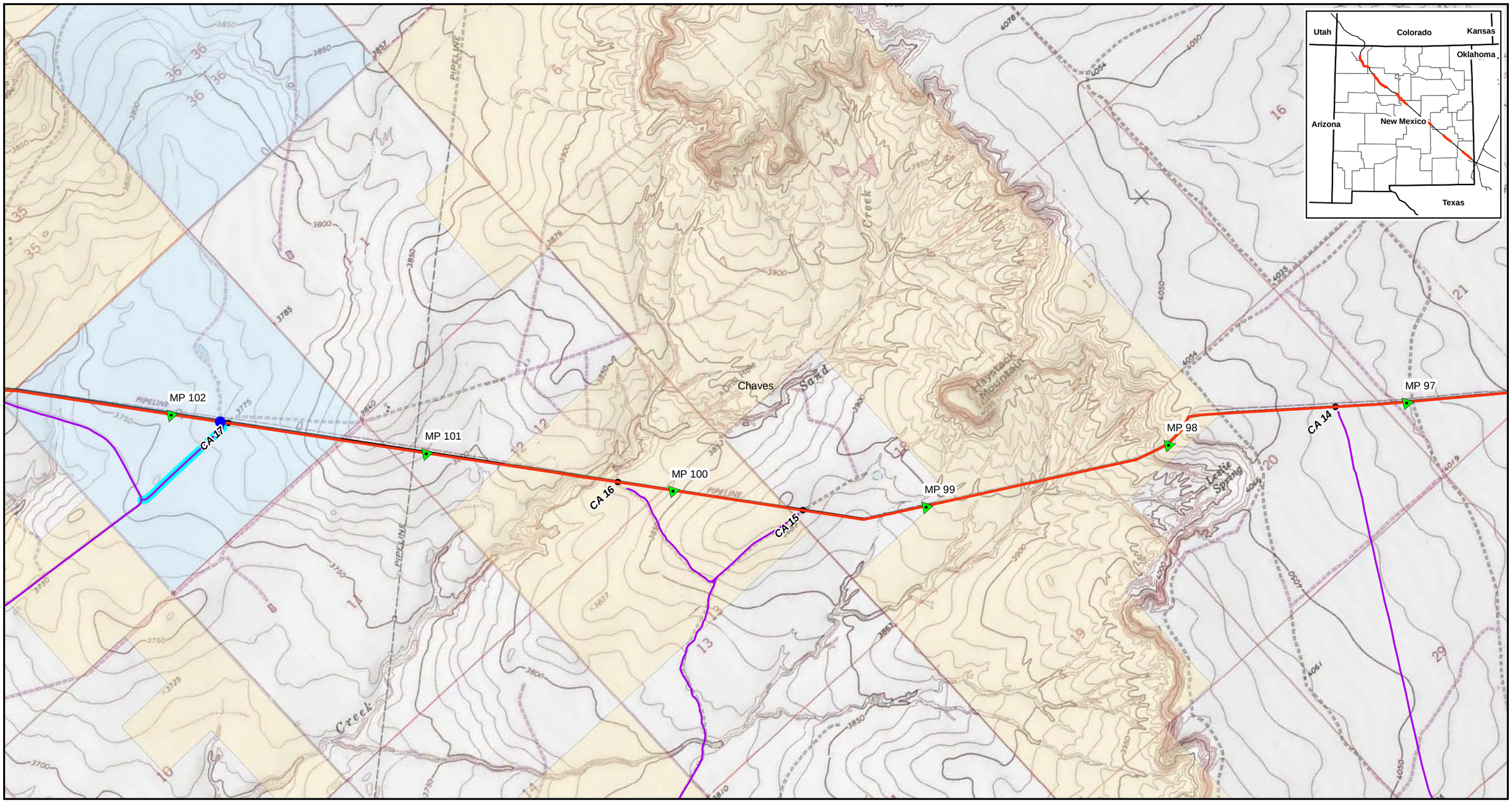
2,000 0 2,000
Feet

Mid-America Pipeline

General Location of the WEP III Loop Pipeline Segment 6

Chaves County, New Mexico

Sheet 1 of 7



Legend

- Proposed Centerline
- Existing MAPL System
- Construction Access
- Access Road Improvements
- Hydrostatic Discharge Location

Land Ownership

- BLM
- BOR
- Forest Service
- BIA/Tribal
- State
- State Game and Fish
- Private

N

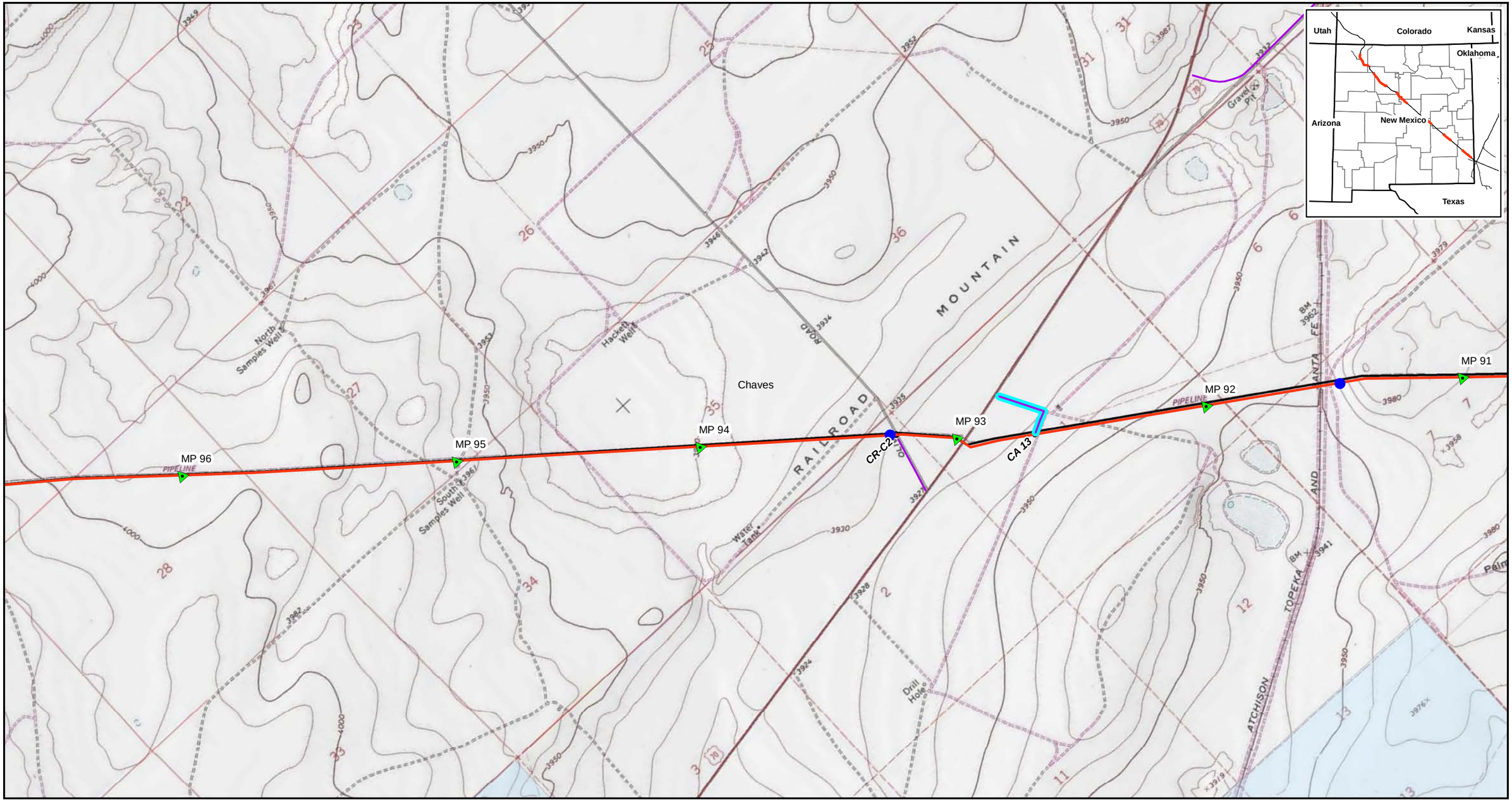
2,000 0 2,000 Feet

Mid-America Pipeline

General Location of the WEP III Loop Pipeline Segment 6

Chaves County, New Mexico

Sheet 2 of 7



Legend

- Proposed Centerline
- Existing MAPL System
- Construction Access
- Access Road Improvements
- Hydrostatic Discharge Location

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- Forest Service
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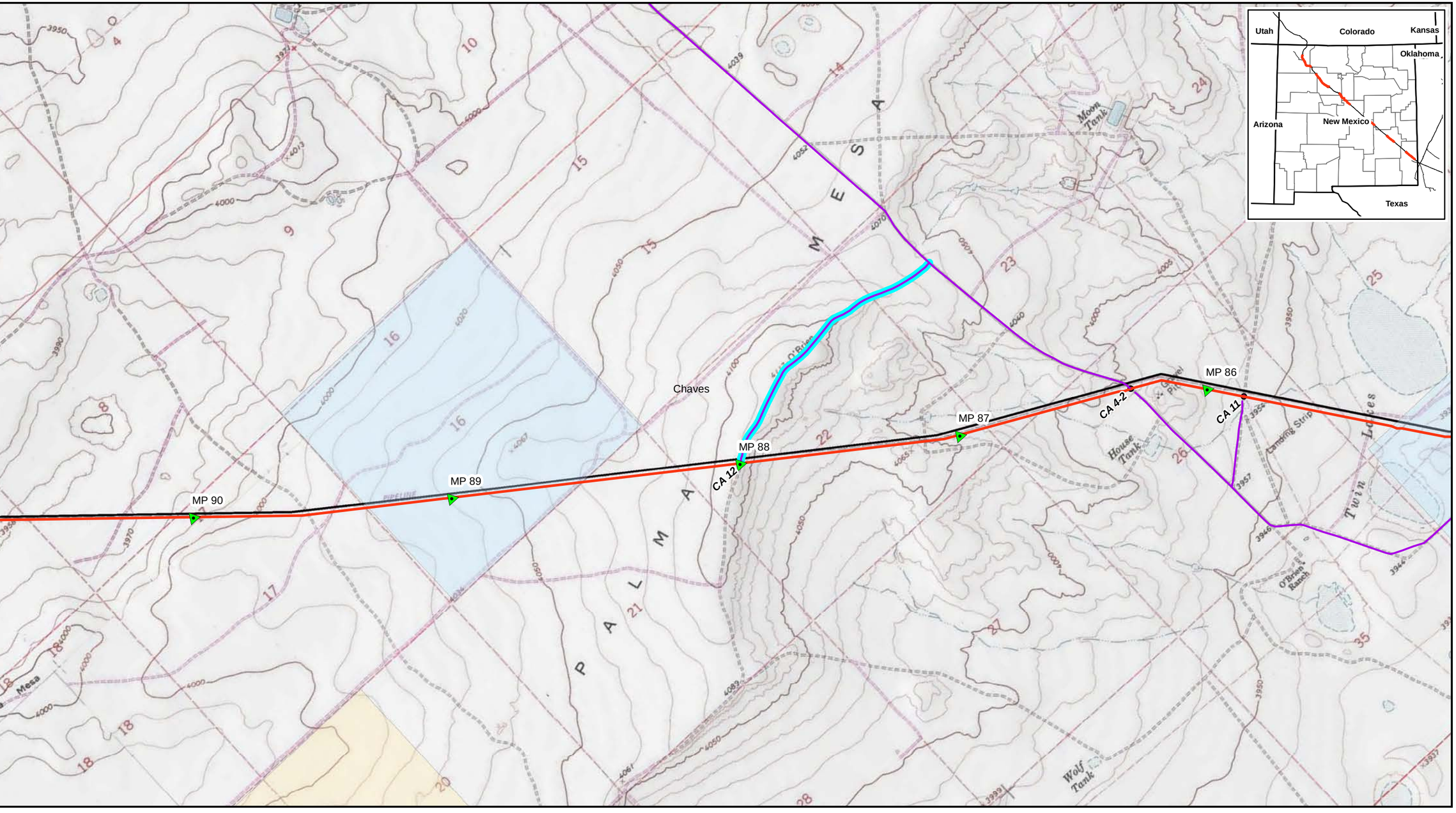
- Private

2,000 0 2,000 Feet

Mid-America Pipeline

General Location of the WEP III Loop Pipeline Segment 6

Chaves County, New Mexico



Legend

- Proposed Centerline
- Existing MAPL System
- Construction Access
- Access Road Improvements
- Hydrostatic Discharge Location

Land Ownership

- BLM
- BOR
- Forest Service
- BIA/Tribal
- State
- State Game and Fish
- Private

N

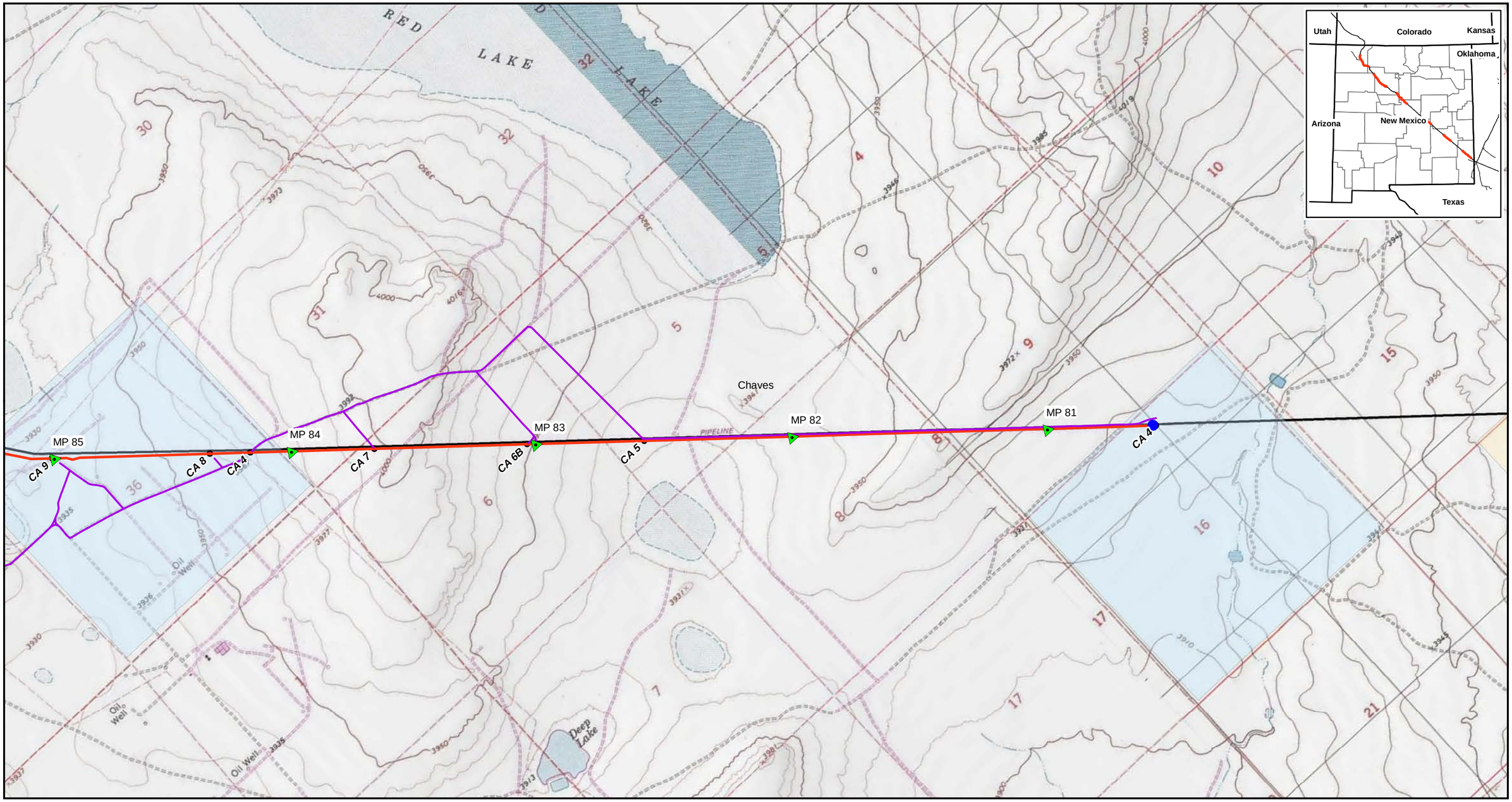
2,000 0 2,000
Feet

Mid-America Pipeline

General Location of the WEP III Loop Pipeline Segment 6

Chaves County, New Mexico

Sheet 4 of 7



Legend

- Proposed Centerline
- Existing MAPL System
- Construction Access
- Access Road Improvements
- Hydrostatic Discharge Location

Land Ownership

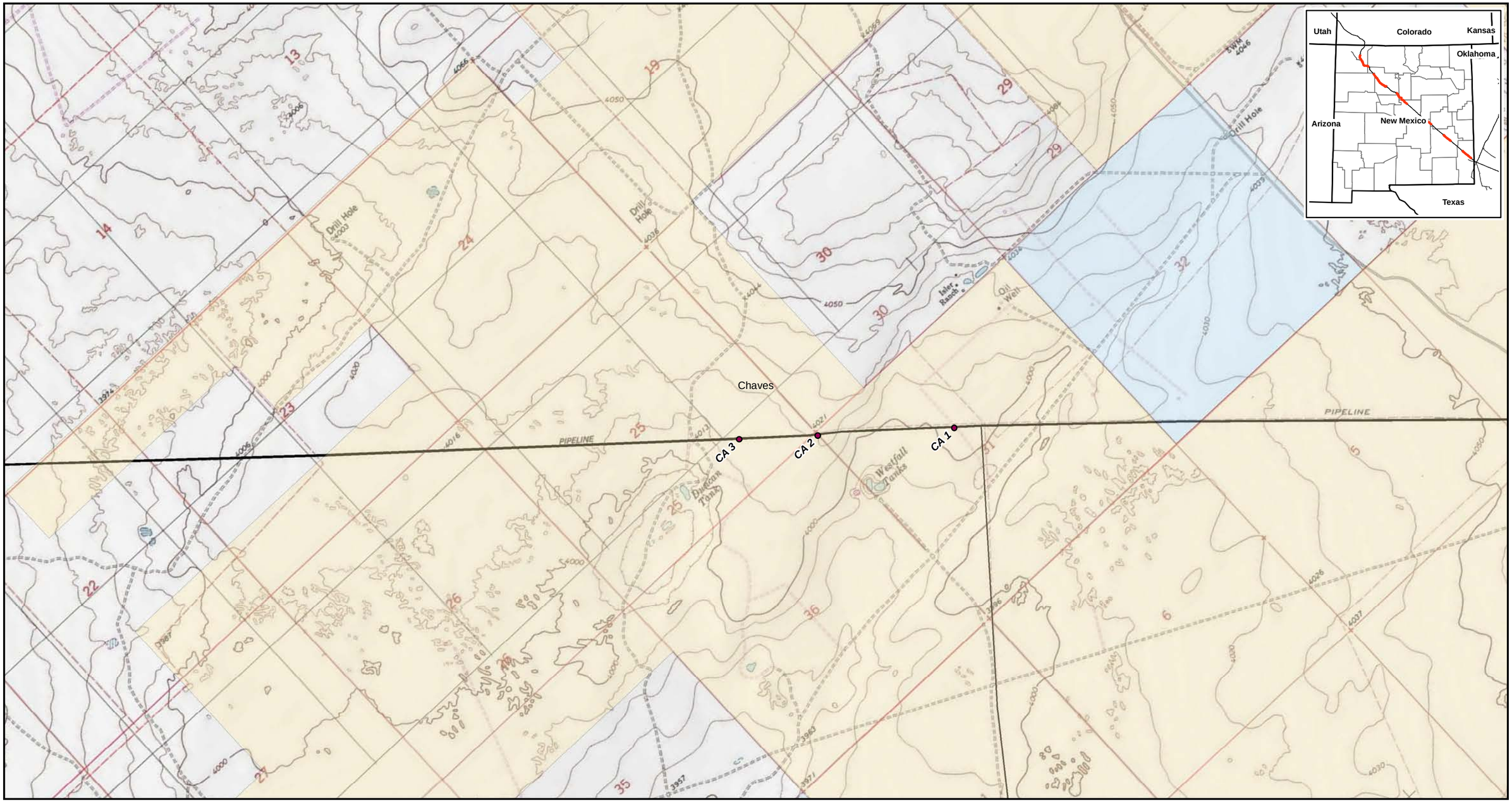
- BLM
- BOR
- Forest Service
- BIA/Tribal
- State
- State Game and Fish
- Private

2,000 0 2,000
Feet

Mid-America Pipeline

General Location of the WEP III Loop Pipeline Segment 6

Chaves County, New Mexico



Legend

- Proposed Centerline
- Existing MAPL System
- Construction Access
- Access Road Improvements
- Hydrostatic Discharge Location

Land Ownership

- BLM
- BOR
- Forest Service
- BIA/Tribal
- State
- State Game and Fish
- Private

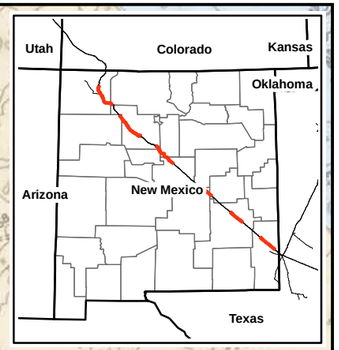
2,000 0 2,000
Feet

Mid-America Pipeline

General Location of the WEP III Loop Pipeline Segment 6

Chaves County, New Mexico

Sheet 6 of 7



Chaves

Cato Rd

PIPELINE

PIPELINE

Drill Hole

Drill Hole

Drill Hole

Drill Hole

BM 4065

BM 4091

BM 4092

BM 4058

BM 4118

Legend

- Proposed Centerline
- Existing MAPL System
- Construction Access
- Access Road Improvements
- Hydrostatic Discharge Location

Land Ownership

- BLM
- BOR
- Forest Service
- BIA/Tribal
- State
- State Game and Fish
- Private

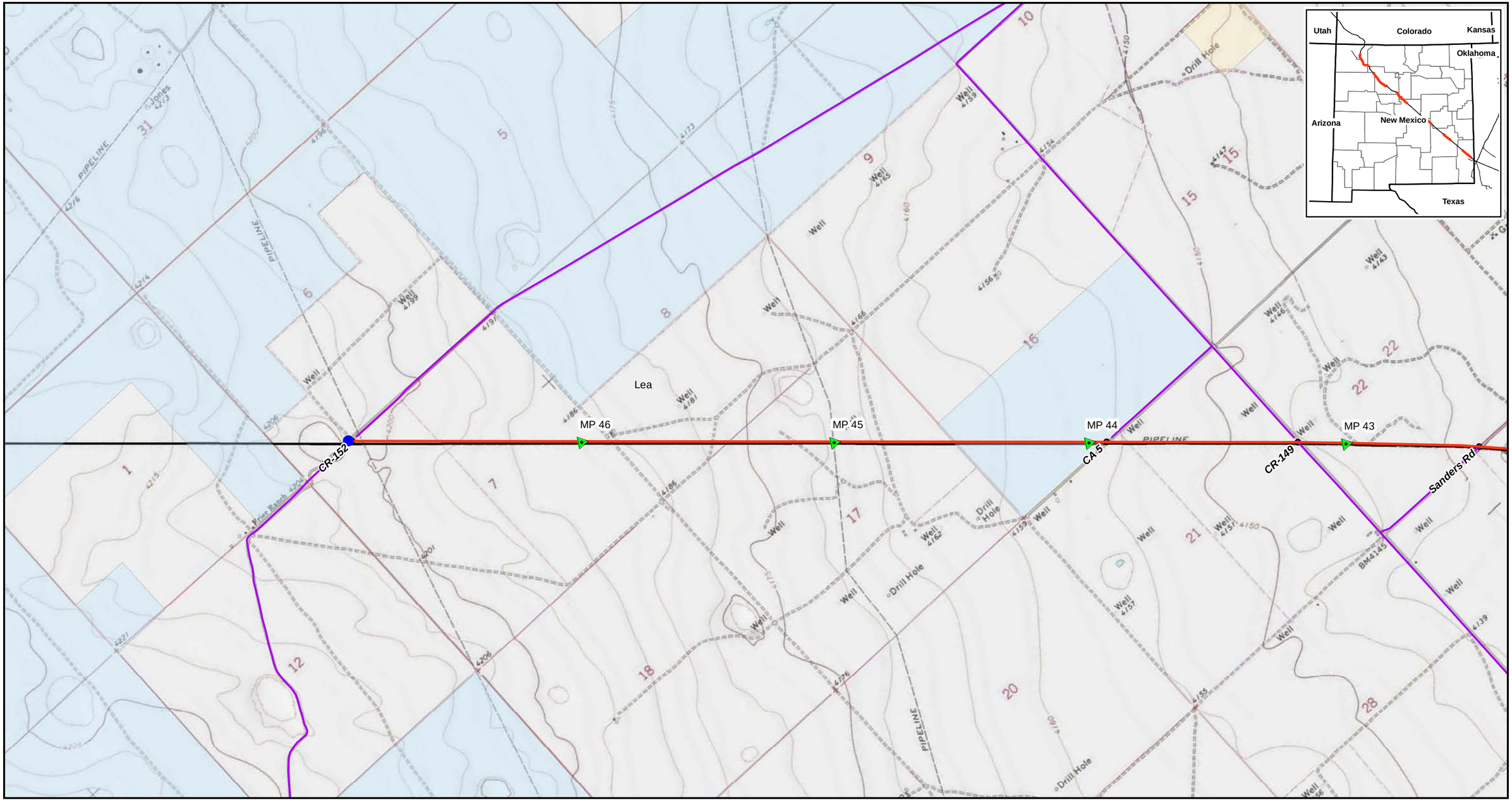
2,000 0 2,000 Feet

Mid-America Pipeline

General Location of the WEP III Loop Pipeline Segment 6

Chaves County, New Mexico

Sheet 7 of 7



Legend

- Proposed Centerline
- Existing MAPL System
- Construction Access
- Access Road Improvements
- Hydrostatic Discharge Location

Land Ownership

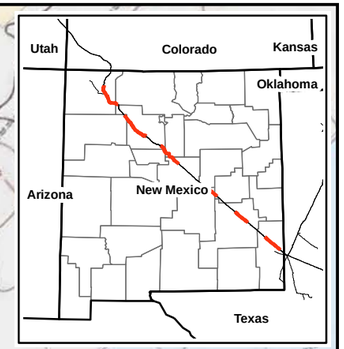
- BLM
- BOR
- Forest Service
- BIA/Tribal
- State
- State Game and Fish
- Private

2,000 0 2,000 Feet

Mid-America Pipeline

General Location of the WEP III Loop Pipeline Segment 7

Lea County, New Mexico



MP 42
MP 41
MP 40
Lea
MP 39
MP 38
MP 37
CR-147
CR-147

Legend

- Proposed Centerline
- Existing MAPL System
- Construction Access
- Access Road Improvements
- Hydrostatic Discharge Location

Land Ownership

- BLM
- BOR
- Forest Service
- BIA/Tribal
- State
- State Game and Fish
- Private

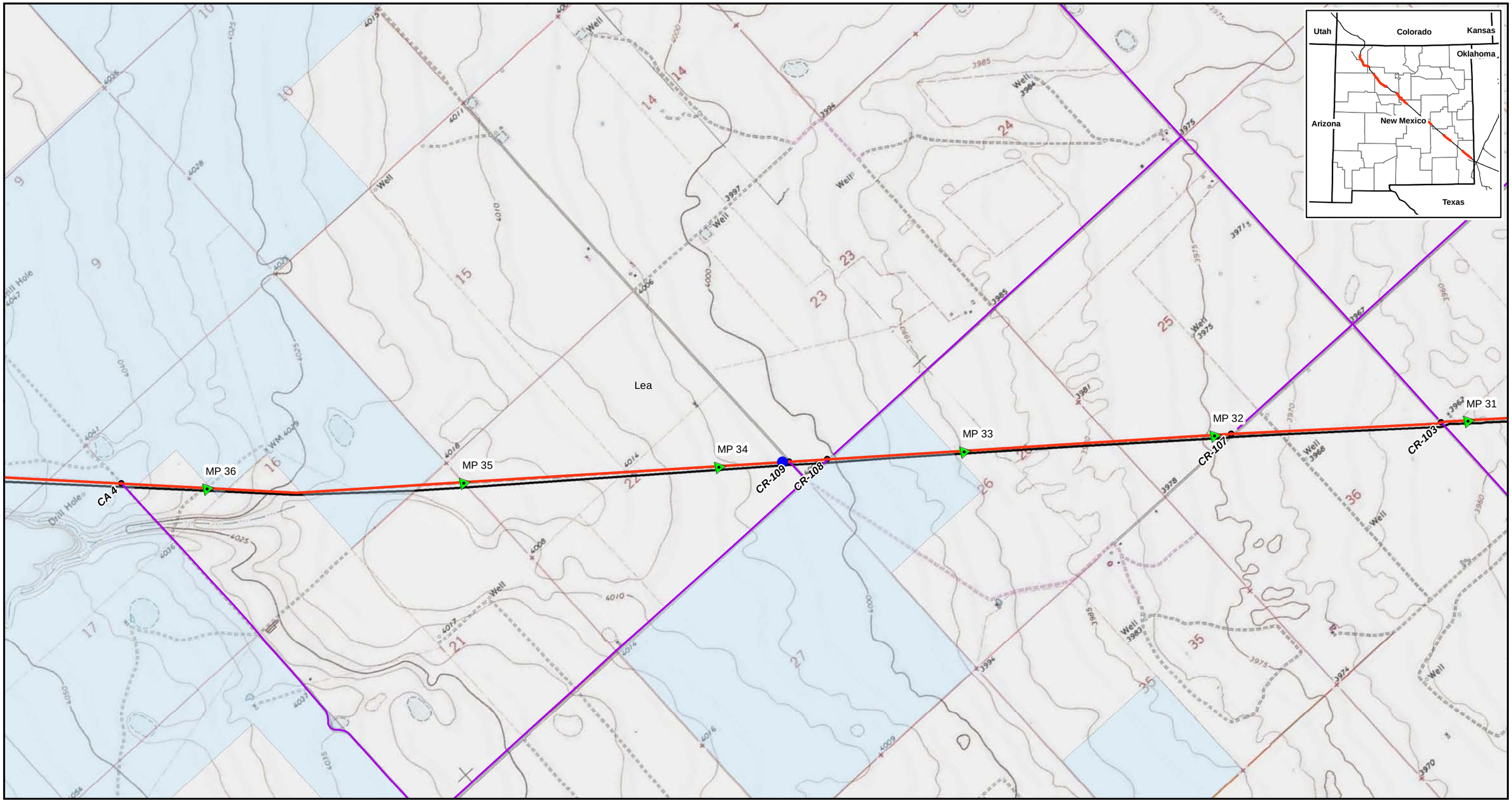
N

2,000 0 2,000
Feet

Mid-America Pipeline

General Location of the WEP III Loop Pipeline Segment 7

Lea County, New Mexico



Legend

- Proposed Centerline
- Existing MAPL System
- Construction Access
- Access Road Improvements
- Hydrostatic Discharge Location

Land Ownership

- BLM
- BOR
- Forest Service
- BIA/Tribal
- State
- State Game and Fish
- Private

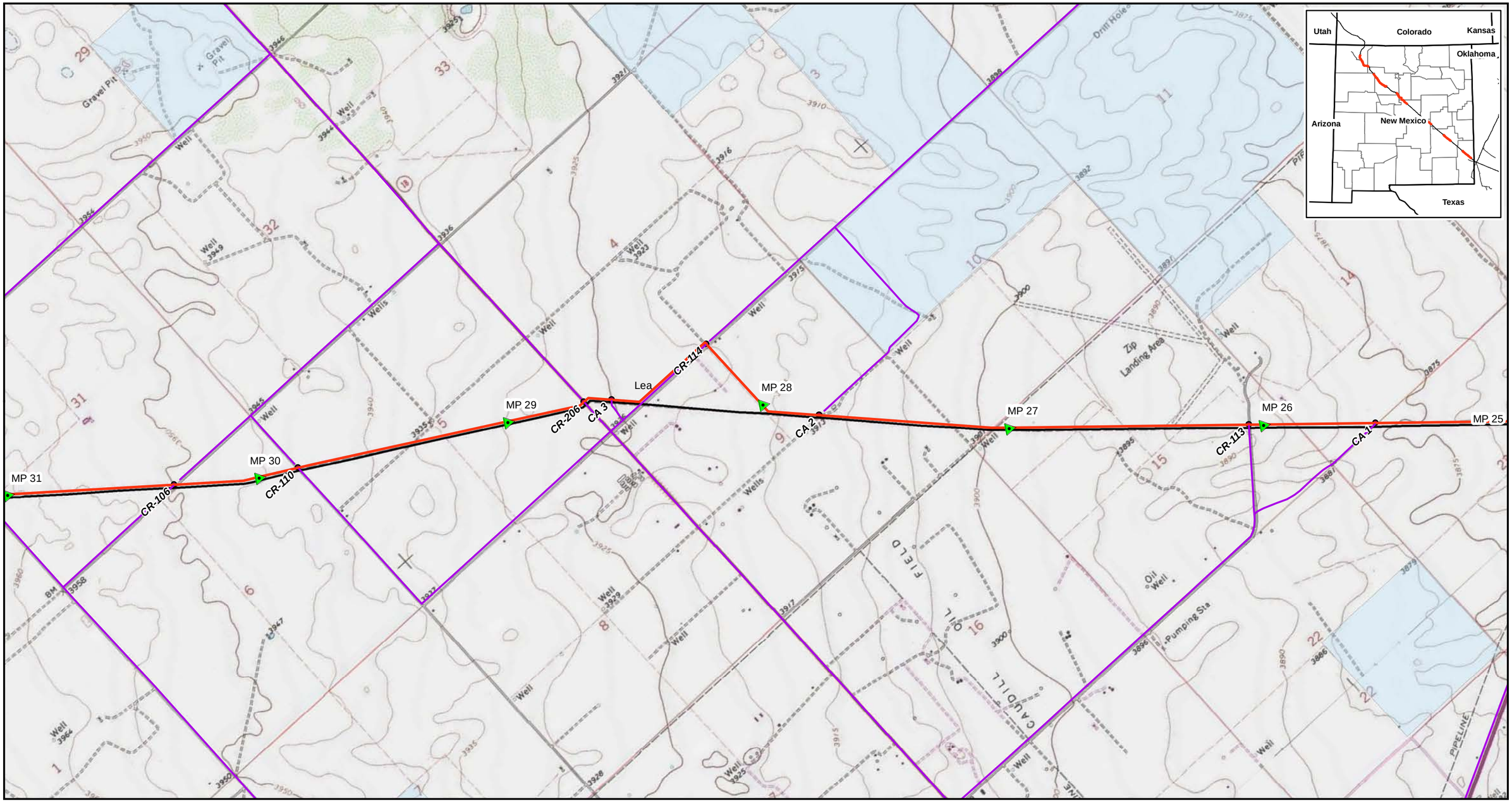
N

2,000 0 2,000 Feet

Mid-America Pipeline

General Location of the WEP III Loop Pipeline Segment 7

Lea County, New Mexico



Legend

- Proposed Centerline
- Existing MAPL System
- Construction Access
- Access Road Improvements
- Hydrostatic Discharge Location

Land Ownership

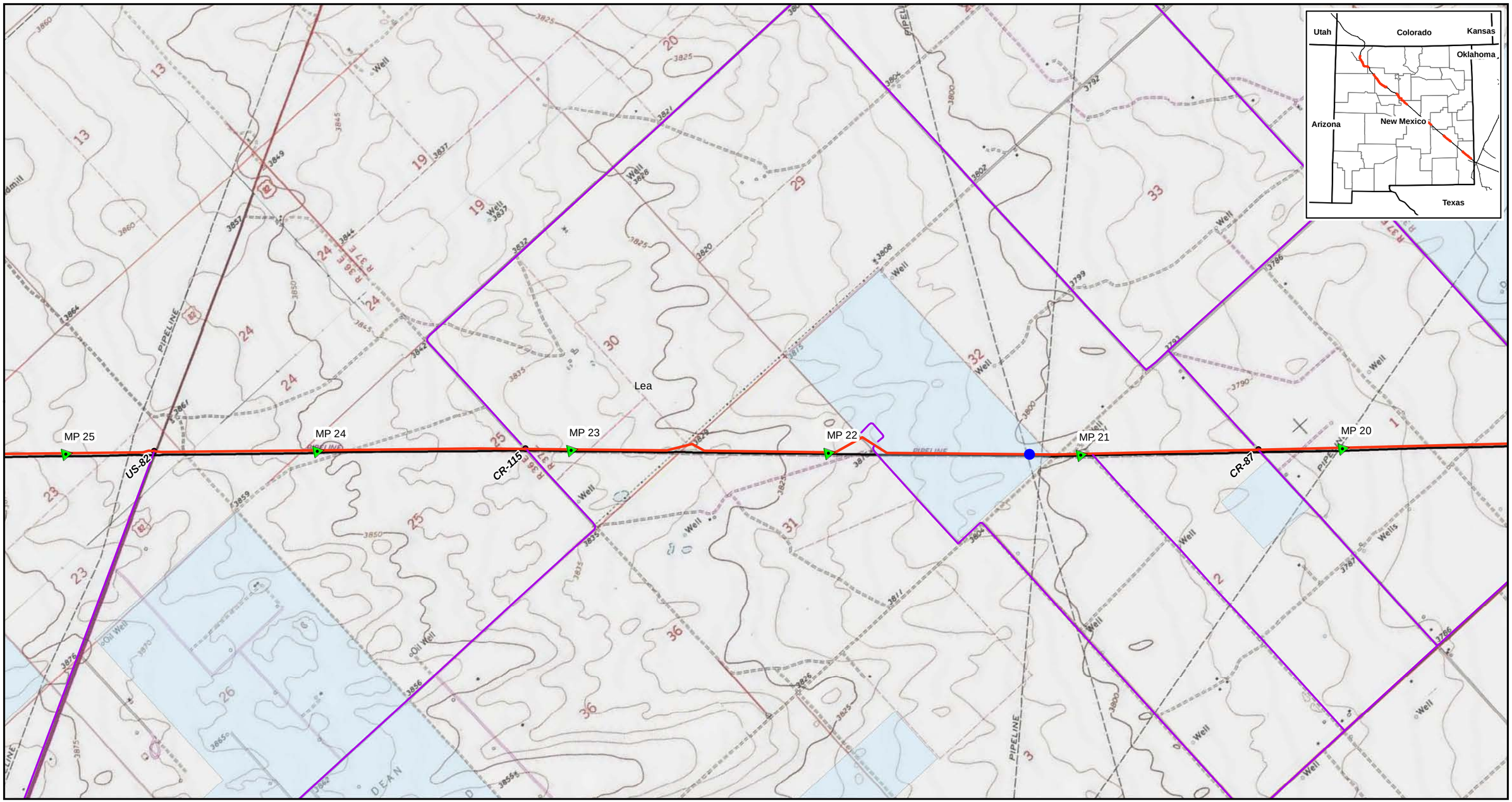
- BLM
- BOR
- Forest Service
- BIA/Tribal
- State
- State Game and Fish
- Private

2,000 0 2,000
Feet

Mid-America Pipeline

General Location of the WEP III Loop Pipeline Segment 7

Lea County, New Mexico



Legend

- Proposed Centerline
- Existing MAPL System
- Construction Access
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- Hydrostatic Discharge Location

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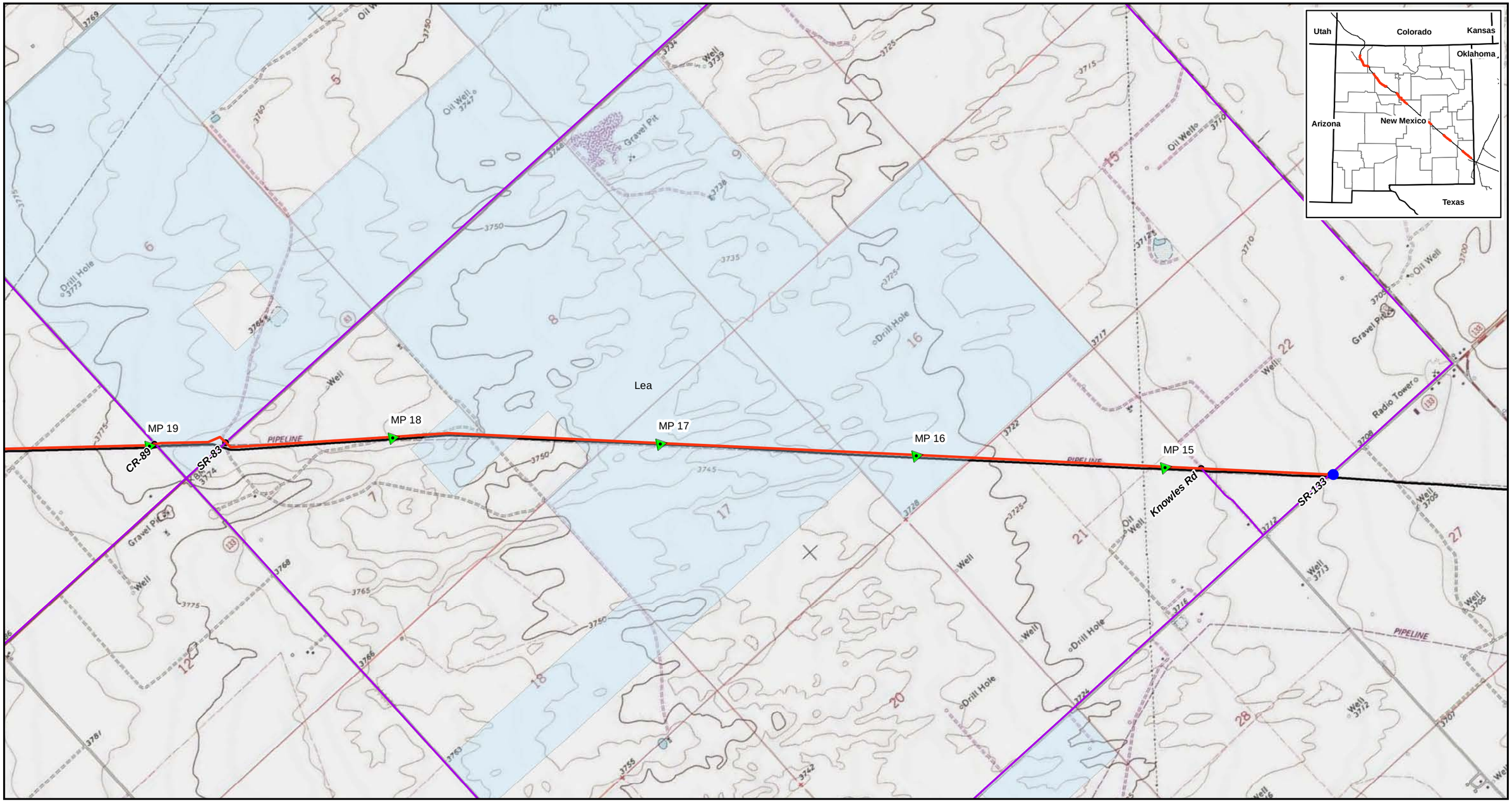
- BIA/Tribal
- State
- State Game and Fish
- Private

2,000 0 2,000 Feet

Mid-America Pipeline

General Location of the WEP III Loop Pipeline Segment 7

Lea County, New Mexico



Legend

- Proposed Centerline
- Existing MAPL System
- Construction Access
- Access Road Improvements
- Hydrostatic Discharge Location

Land Ownership

- BLM
- BOR
- Forest Service
- BIA/Tribal
- State
- State Game and Fish
- Private

2,000 0 2,000 Feet

Mid-America Pipeline

General Location of the WEP III Loop Pipeline Segment 7

Lea County, New Mexico

APPENDIX B

LEGAL DESCRIPTION

Legal Location and Mileposts for WEP III
(New Mexico Principal Meridian)

Segment	Length	Begin MP [1]	End MP [1]	Legal Location	
Segment 1	45.7	415.69	370.39	**Federal Lands – BLM**	
				T. 28 N., R. 11 W.	Sec. 13, SW1/4 NW1/4, SE1/4 NW1/4, E1/2 SW1/4
					Sec 24, E1/2 W1/2
					Sec 25, E1/2 NW1/4, NE1/4 SW1/4, W1/2 SW1/4
					Sec 36, E1/2 NW1/4
					Sec 35, SE1/4 NE1/4, NE1/4 SE1/4, S1/2 SE1/4
				T. 27 N., R. 11 W.	Sec 2, E1/2 W1/2, SW1/4 SW1/4
					Sec 11, E1/2 NW1/4, NW1/4 SW1/4
					Sec 10, E1/2 SE1/4
					Sec 15, E1/2 E1/2
					Sec 35, NW/14 NE1/4
					Sec 36, SW1/4 NW1/4, E1/2 SW1/4, SW1/4 SE1/4
				T. 26 N., R. 11 W.	Sec 1, NW1/4 NE1/4, E1/2 NE1/4
				T. 26 N., R. 10 W.	Sec 7, NE1/4 NW1/4, W1/2 NE1/4, SE1/4 SE1/4
					Sec 8, NW1/4 NW1/4
					Sec 17, W1/2 NW1/4, SE1/4 NW1/4, NE1/4 SW1/4, W1/2 SE1/4
					Sec 20, W1/2 NE1/4, E1/2 NE1/4
					Sec 21, W1/2 SW1/4, SE1/4 SW1/4
					Sec 28, NE1/4 NW1/4, W1/2 NE1/4, N1/2 SE1/4, SE1/4 SE1/4
					Sec 27, SW1/4 SW1/4
					Sec 34, W1/2 NW1/4, SE1/4 NW1/4, NE1/4 SW1/4, W1/2 SE1/4
				T. 25 N., R. 10 W.	Sec 3, N1/2 NE1/4, SE1/4 NE1/4
					Sec 14, NE1/4 NE1/4
					Sec 25, E1/2 NE1/4, NE1/4 SE1/4
				T. 25 N., R. 9 W.	Sec 30, W1/2 SW1/4
					Sec 31, N1/2 NW1/4, SE1/4 NW1/4, E1/2 SW1/4, SW1/4 SE1/4
				T. 24 N., R. 9 W.	Sec 6, W1/2 NE1/4, E1/2 SE1/4
					Sec 7, E1/2 NE1/4, NE1/4 SE1/4
					Sec 17, W1/2 NW1/4, N1/2 SW1/4, SE1/4 SW1/4
					Sec 20, E1/2 NW1/4, SW1/4 NE1/4, W1/2 SE1/4

Segment	Length	Begin MP [1]	End MP [1]	Legal Location	
					Sec 29, W1/2 NE1/4, SE1/4 NE1/4
					Sec 28, S1/2 NW1/4, NE1/4 SW1/4, W1/2 SE1/4, SE1/4 SE1/4
					Sec 27, S1/2 SW1/4, SW1/4 SE1/4
					Sec 35, N1/2 SW1/4, W1/2 SE1/4 SE1/4 SE1/4
				T. 24 N., R. 8 W.	Sec 33, SW1/4, SW1/4
					Sec 34, S1/2 S1/2
				T. 23 N., R. 8 W.	Sec 4, NE1/4 NW1/4, N1/2 NE1/4
					Sec 3, NW1/4 NW1/4
					Sec 1, N1/2 NW1/4
				T. 23 N., R. 7 W.	Sec 9, W1/2 SW1/4, SE1/4 SW1/4
					Sec 11, S1/2 SW1/4
				Indian/Tribal	
				T. 25 N., R. 10 W.	Sec 2, SW1/4 NW1/4, W1/2 SW1/4, SE1/4 SW1/4
					Sec 11, NE1/4 NW1/4, W1/2 NE1/4, SE1/4 NE1/4, E1/2 SE1/4
					Sec 24, NE1/4 NW1/4, W1/2 NE1/4, W1/2 SE1/4, SE1/4 SE1/4
				T. 24 N., R. 9 W.	Sec 34, N1/2 NE1/4, SE1/4 NE1/4
					Sec 35, SW1/4 NW1/4
				T. 24 N., R. 8 W.	Sec 35, S1/2 S1/2
				T. 23 N., R. 8 W.	N1/2 NE1/4
				T. 23 N., R. 7 W.	Sec 6, W1/2 NW1/4, SE1/4 NW1/4, N1/2 SE1/4, SE1/4 SE1/4
					Sec 8, N1/2 NW1/4, SE1/4 NW1/4, SW1/4 NE1/4, N1/2 SE1/4
					Sec 15, N1/2 NW1/4
				State Lands	
				T. 24 N., R. 9 W.	Sec 36, S1/2 S1/2
				T. 24 N., R. 8 W.	Sec 31, S1/2 S1/2
					Sec 32, S1/2 S1/2
					Sec 36, SW1/4 SW1/4
				Private Lands	
				T. 27 N., R. 11 W.	Sec 2, NW1/4 NW1/4
					Sec 22, E1/2 NE1/4
					Sec 23, SW1/4 NW1/4, W1/2 SW1/4, SE1/4 SW1/4

Segment	Length	Begin MP [1]	End MP [1]	Legal Location	
					Sec 26, E1/2 NW1/4, SW1/4 NE1/4, NW1/4 SE1/4, E1/2 SE1/4
					Sec 36, NW1/4 NW1/4, SE1/4 NW1/4
				T. 27 N., R. 10 W.	Sec 6, W1/2 SE1/4, SE1/4 SW1/4
				T. 26 N., R. 10 W.	Sec 7, N1/2 SE1/4
				T. 25 N., R. 10 W.	Sec 13, W1/2 W1/2, SE1/4 SW1/4
				T. 24 N., R. 9 W.	Sec 8, W1/2 SW1/4
				T. 23 N., R. 7 W.	Sec 16, NE1/4 NW1/4, N1/2 NE1/4
					Sec 15, NW1/4 NE1/4
					Sec 10, S1/2 SE1/4
					Sec 14, NE1/4 NW1/4
Segment 2	50.9	350.21	299.4	**Federal Lands – BLM**	
				T. 20 N., R. 5 W.	Sec 5, E1/2 NE1/4
					Sec 4, SW/14 NW1/4, SW1/4 SE1/4
					Sec 10, W1/2 SW1/4, SE1/4 SW1/4
					Sec 15, NE1/4 SW1/4, E1/2 NE1/4, NE1/4 SE1/4
					Sec 14, W1/2 SW1/4, SE1/4 SW1/4
					Sec 36, E1/2 NE1/4
				T. 20 N., R. 4 W.	Sec 31, SW1/4 NW1/4, NW1/4 SW1/4, E1/2 SW1/4
				T. 19 N., R. 4 W.	Sec 6, NE1/4 NW1/4, NE1/4 SE1/4
					Sec 5, W1/2 SW1/4, SE1/4 SW1/4
					Sec 8, E1/2 NW1/4, SW1/4 NE1/4, N1/2 SE1/4, SE1/4 SE1/4
					Sec 9, SW1/4 SW1/4
					Sec 21, NE1/4 NE1/4
					Sec 22, W1/2 NW1/4, SE1/4 NW1/4, E1/2 SW1/4, SW1/4 SE1/4
					Sec 27, N1/2 NE1/4, SE1/4 NE1/4
					Sec 26, N1/2 SW1/4, SE1/4 SW1/4, S1/2 SE1/4
					Sec 35, NE1/4 NE1/4
					Sec 36, W1/2 NW1/4, SE1/4 NW1/4, E1/2 SW1/4, SW1/4 SE1/4
				T. 18 N., R. 4 W.	Sec 1, N1/2 NE1/4
				T. 18 N., R. 3 W.	Sec 6, W1/2 NW1/4, SE1/4 SE1/4, NE1/4 SW1/4, W1/2 SE1/4, SE1/4 SE1/4
					Sec 20, NE1/4 SE1/4

Segment	Length	Begin MP [1]	End MP [1]	Legal Location	
					Sec 28, SW1/4 NE1/4, N1/2 SE1/4, SE1/4 SE1/4
					Sec 33, NE1/4 NE1/4
				T. 17 N., R. 3 W.	Sec 3, N1/2 NE1/4, SE1/4 NE1/4, NE1/4 SE1/4
					Sec 2, S1/2 SW1/4
					Sec 11, E1/2 NW1/4, SW1/4 NE1/4, N1/2 SE1/4, SE1/4 SE1/4
					Sec 14, NE1/4 NE1/4
					Sec 13, W1/2 NW1/4, SE1/4 NW1/4, NE1/4 SW1/4, W1/2 SE1/4
					Sec 24, N1/2 NE1/4, SE1/4 NE1/4
					Sec 19, SW1/4 NW1/4, N1/2 SW1/4, SE1/4 SW1/4
				PLS GAP	
				T. 15 N., R. 1 E.	Sec 17, N1/2 NE1/4
					Sec 11, N1/2 S1/2
				Indian/Tribal	
				T. 20 N., R. 5 W.	Sec 4, N1/2 SW1/4, NE1/4 SW1/4
					Sec 9, N1/2 NE1/4, SE1/4 NE1/4
					Sec 23, E1/2 NW1/4, SW1/4 NE1/4, N1/2, SE1/4, SE1/4 SE1/4
					Sec 24, SW1/4 SW1/4
					Sec 25, W1/2 NW1/4, SE1/4 NW1/4, NE1/4 SW1/4, W1/2 SE1/4, SE1/4 SE1/4
				T. 19 N., R. 4 W.	Sec 6, W1/2 NE1/4, SE1/4 NE1/4
					Sec 26, SW1/4 NW1/4
				T. 18 N., R. 3 W.	Sec 7, E1/2 NE1/4
					Sec 8, SW1/4 NW1/4, N1/2 SW1/4, SE1/4 SW1/4
					Sec 17, NE1/4 NW1/4, W1/2 NE1/4, W1/2 SE1/4
					Sec 20, N1/2 NE1/4, SE1/4 NE1/4
					Sec 21, W1/2 SW1/4, SE1/4 SW1/4
					Sec 28, E1/2 NW1/4
				T. 16 N., R. 1 W.	Sec 20, S1/2 SW1/4
					Sec 29, NE1/4 NW1/4, N1/2 NE1/4
				PLS GAP	
				T. 15 N., R. 1 E.	Sec 13, N1/2 NW1/4, N1/2 SE1/4, SE1/4 SE1/4
					Sec 24, NE1/4 NE1/4

Segment	Length	Begin MP [1]	End MP [1]	Legal Location	
					Sec 19, W1/2 NW1/4, SE1/4 NW1/4
				State Lands	
				T. 19 N., R. 4 W.	Sec 16, N1/2 NW1/4, SE1/4 NW1/4, NE1/4 SW1/4, W1/2 SE1/4, SE1/4 SE1/4
				T. 17 N., R. 3 W.	Sec 2, NW1/4 SW1/4
				T. 15 N., R. 1 E.	Sec 16, N1/2 N1/2
					Sec 15, N1/2 NW1/4
					Sec 10, SE1/4 SW1/4, W1/2 SE1/4, NE1/4 SE1/4
				Private Lands	
				T. 18 N., R. 3 W.	Sec 34, W1/2 NW1/4, SE1/4 NW1/4, E1/2 SW1/4, SW1/4 SE1/4
				T. 15 N., R. 1 E.	Sec 8, SW1/4 NW1/4, NE1/4 SW1/4, W1/2 SE1/4
					Sec 12, W1/2 SW1/4
					Sec 13, W1/2 NE1/4
Segment 3	46.8	270.06	223.48	**Federal Lands – BLM**	
				T. 12 N., R. 6 E.	Sec 22, NW1/4 NW1/4, SE1/4 NW1/4, SW1/4 NE1/4, W1/2 SE1/4
				State Lands	
				T. 12 N., R. 6 E.	Sec 16, SW1/4 NE1/4, N1/2 SE1/4, SE1/4 SE1/4
				T. 9 N., R. 9 E.	Sec 21, S1/2 SW1/4
					Sec 28, NE1/4 NW1/4, W1/2 NE1/4, SE1/4 NE1/4, NE1/4 SE1/4
					Sec 35, W1/4 SW1/4, SE1/4 SW1/4
				T. 8 N., R. 9 E.	Sec 1, N1/2 NW1/4, N1/2 SE1/4 NW1/4
				T. 8 N., R. 10 E.	Sec 7, SE1/4 NW1/4, NE1/4 SW1/4, W1/2 SE1/4, SE1/4 SE1/4
					Sec 27, N1/2 NW1/4, SE1/4 NW1/4, S1/2 NE1/4, NE1/4 SE1/4
				Private Lands	
				T. 12 N., R. 6 E.	Sec 8, W1/2 NW1/4, SW1/4 NE1/4, N1/2 SE1/4, SE1/4 SE1/4
					Sec 9, SW1/4 SW1/4
					Sec 16, N1/2 NW1/4, SE1/4 NW1/4
					Sec 15, SW1/4 SW1/4
					Sec 22, NE1/4 NW1/4
				PLS GAP	
				T. 11 N., R. 7 E.	Sec 19, N1/2 N1/2, E1/2 E1/2
					Sec 20, SW1/4 SW1/4

Segment	Length	Begin MP [1]	End MP [1]	Legal Location	
					Sec 29, W1/2 W1/2
					Sec 32, W1/2 NW1/4, SE1/4 NW1/4, SW1/4 NE1/4, N1/2 SE1/4, SE1/4 SE1/4
					Sec 33, S1/2 SW1/4
				T. 10 N., R. 7 E.	Sec 4, NE1/4 NW1/4, N1/2 NE1/4
					Sec 3, N1/2 N1/2
					Sec 2, N1/2 N1/2
					Sec 1, N1/2 N1/2
				T. 10 N., R. 8 E.	Sec 6, N1/2 NW1/4, W1/2 E1/2
					Sec 7, W1/2 E1/2
					Sec 18, W1/2 NE1/4, N1/2 SE1/4, SE1/4 SE1/4
					Sec 19, NE1/4 NE1/4
					Sec 20, W1/2 W1/2
					Sec 29, W1/2 NW1/4, SE1/4 NW1/4, SW1/4 NE1/4, N1/2 SE1/4, SE1/4 SE1/4
					Sec 28, S1/2 S1/2
					Sec 27, S1/2 S1/2
					Sec 26, SW1/4 SW1/4
					Sec 35, N1/2 NW1/4, SE1/4 NW1/4, S1/2 NE1/4, NE1/4 SE1/4
					Sec 36, W1/2 SW1/4, SE1/4 SW1/4
				T. 9 N., R. 8 E.	NE1/4 NW1/4, N1/2 NE1/4, SE1/4 NE1/4
				T. 9 N., R. 9 E.	Sec 6, SW1/4 NW1/4, W1/2 SW1/4, SE1/4 SW1/4
					Sec 7, E1/2 NW1/4, SW1/4 NE1/4, W1/2 SE1/4, SE1/4 SE1/4
					Sec 18, E1/2 NE1/4, NE1/4 SE1/4
					Sec 17, N1/2 SW1/4, W1/2 SE1/4
					Sec 20, W1/2 NE1/4, N1/2 SE1/4, SE1/4 SE1/4
					Sec 27, W1/2 SW1/4, SE1/4 SW1/4
					Sec 34, NE1/4 NW1/4, W1/2 NE1/4, SE1/4 NE1/4, NE1/4 SE1/4
				T. 8 N., R. 9 E.	Sec 1, S1/2 SE1/4 NW1/4, SW1/4 NE1/4, N1/2 SE1/4, SE1/4 SE1/4
				T. 8 N., R. 10 E.	Sec 6, SW1/4 SW1/4
					Sec 7, W1/2 NW1/4
					Sec 18, NE1/4 NE1/4
					Sec 17, W1/2 NW1/4, SE1/4 NW1/4, NE1/4 SW1/4, W1/2 SE1/4, SE1/4 SE1/4

Segment	Length	Begin MP [1]	End MP [1]	Legal Location	
					Sec 16, SW1/4 SW1/4
					Sec 21, N1/2 NW1/4, SE1/4 NW1/4, W1/2 SE1/4, SE1/4 SE1/4
					Sec 22, SW1/4 SW1/4
Segment 5	30.2	144.72	175.00	**Federal Lands – BLM**	
				T. 2 N., R. 16 E.	Sec 1, SW1/4 SW1/4
					Sec 12, N1/2 NW1/4, W1/2 NE1/4, SE1/4 NE1/4
				T. 2 N., R. 17 E.	Sec 7, SW1/4 SE1/4
					Sec 18, N1/2 NE1/4, SE1/4 NE1/4
					Sec 17, SW1/4 NW1/4, N1/2 SW1/4, SE1/4 SW1/4, S1/2 SE1/4
					Sec 20, NE1/4 NE1/4
					Sec 21, W1/2 NW1/4, SE1/4 NW1/4, NE1/4 SW1/4, N1/2 SE1/4 SE1/4 SE1/4
					Sec 22, SW1/4 SW1/4
					Sec 26, W1/2 SW1/4, SE1/4 SW1/4
				T. 1 S., R. 19 E.	Sec 15, NE1/4 NE1/4
				T. 1 S., R. 20 E.	Sec 30, W1/2 SW1/4 NW1/4
				State Lands	
				T. 2 N., R. 16 E.	Sec 12, NE1/4 SE1/4
				T. 2 N., R. 17 E.	Sec 7, N1/2 SW1/4, SE1/4 SW1/4
				T. 1 N., R. 18 E.	Sec 6, W1/2 NW1/4, SE1/4 NW1/4, SW1/4 NE1/4, N1/2 SE1/4, SE1/4 SE1/4
					Sec 5, SW1/4 SW1/4
					Sec 8, NE1/4 NW1/4, W1/2 NE1/4, SE1/4 NE1/4, NE1/4 SE1/4
					Sec 9, N1/2 SW1/4, SE1/4 SW1/4, SW1/4 SE1/4
					Sec 15, SW1/4 NW1/4, N1/2 SW1/4, W1/2 SE1/4, SE1/4 SE1/4
					Sec 22, NE1/4 NE1/4
					Sec 23, W1/2 NW1/4, SE1/4 NW1/4, SW1/4 NE1/4, N1/2 SE1/4, SE1/4 SE1/4
					Sec 24, SW1/4 SW1/4
					Sec 25, N1/2 NW1/4, SE1/4 NW1/4, SW1/4 NE1/4, N1/2 SE1/4
				T. 1 S., R. 20 E.	Sec 31, NE1/4 NE1/4
				Private Lands	
				T. 2 N., R. 17 E.	Sec 27, N1/2 NW1/4, SE1/4 NW1/4, N1/2 NE1/4, NE1/4 SE1/4
					Sec 35, NE1/4 NW1/4, N1/2 NE1/4, SE1/4 NE1/4

Segment	Length	Begin MP [1]	End MP [1]	Legal Location	
					Sec 36, SW1/4, NW1/4, N1/2 SW1/4, W1/2 SE1/4, SE1/4 SE1/4
				T. 1 N., R. 17 E.	Sec 1, NE1/4 NE1/4
				T. 1 N., R. 18 E.	Sec 5, SE1/4 SW1/4
					Sec 16, N1/2 NE1/4, SE1/4 NE1/4
				T. 1 N., R. 19 E.	Sec 30, W1/2 SW1/4, SE1/4 SW1/4
					Sec 31, NE1/4 NW1/4, N1/2 NE1/4, SE1/4 NE1/4
					Sec 32, SW1/4 NW1/4, N1/2 SW1/4, SE1/4 SW1/4, S1/2 SE1/4
				T. 1 S., R. 19 E.	Sec 5, NE1/4 NE1/4
					Sec 4, W1/2 NW1/4, SE1/4 NW1/4, NE1/4 SW1/4, W1/2 SE1/4, SE1/4 SE1/4
					Sec 9, NE1/4 NE1/4
					Sec 10, W1/2 NW1/4, SE1/4 NW1/4, NE1/4 SW1/4, W1/2 SE1/4, SE1/4 SE1/4
					Sec 14, W1/2 NW1/4, SE1/4 NW1/4, NE1/4 SW1/4, W1/2 SE1/4, SE1/4 SE1/4
					Sec 23, NE1/4 NE1/4
					Sec 24, W1/2 NW1/4, N1/2 SW1/4, SE1/4 SW1/4, SW1/4 SE1/4
					Sec 25, N1/2 NE1/4, SE1/4 NE1/4
				T. 1 S., R. 20 E.	Sec 30, E1/2 SW1/4 NW1/4, SE1/4 NW1/4, NE1/4 SW1/4, N1/2 SE1/4, SE1/4 SE1/4
					Sec 32, W1/2 NW1/4, SE1/4 NW1/4, SW1/4 NE1/4, N1/2 SE1/4, SE1/4 SE1/4
					Sec 33, SW1/4 SW1/4
				T. 2 S., R. 20 E.	Sec 4, W1/2 NW1/4, SE1/4 NW1/4, NE1/4 SW1/4, W1/2 SE1/4, SE1/4 SE1/4
					Sec 3, SW1/4 SW1/4
					Sec 10, N1/2 NW1/4, SW1/4 NW1/4, SW1/4 NE1/4, N1/2 SE1/4, SE1/4 SE1/4
					Sec 11, SW1/4 SW1/4
Segment 6	27.3	107.96	80.57	**Federal Lands – BLM**	
				T. 6 S., R. 26 E.	Sec 18, W1/2 SE1/4, SE1/4 SE1/4
					Sec 19, NE1/4 NE1/4
					Sec 20, SE1/4 NW1/4, E1/2 SE1/4
					Sec 28, SE1/4 NW1/4, NE1/4 SW1/4
				T. 7 S., R. 26 E.	Sec 12, E1/2 SW1/4, W1/2 SE1/4
				T. 7 S., R. 27 E.	Sec 18, NE1/4 SW1/4, S1/2 SE1/4
					Sec 19, NE1/4 NE1/4
					Sec 20, N1/2 NW1/4

Segment	Length	Begin MP [1]	End MP [1]	Legal Location	
				State Lands	
				T. 7 S., R. 26 E.	Sec 2, N1/2 NW1/4, SE1/4 NW1/4, NE1/4 SW1/4, W1/2 SE1/4, SE1/4 SE1/4
				T. 8 S., R. 28 E.	Sec 16, SW1/4 NW1/4, N1/2 SW1/4, SE1/4 SW1/4
					Sec 36, N1/2 NW1/4, SE1/4 NW1/4, SW1/4 NE1/4, N1/2 SE1/4, SE1/4 SE1/4
				T. 9 S., R. 29 E.	Sec 16, N1/2 NE1/4, SE1/4 NE1/4
				Private Lands	
				T. 6 S., R. 26 E.	Sec 18, S1/2 NW1/4, NE1/4 SW1/4
					Sec 20, N1/2 NW1/4, SW1/4 NE1/4, NW1/4 SE1/4
					Sec 21, SW1/4 SW1/4
					Sec 28, W1/2 NW1/4, W1/2 SE1/4, SE1/4 SE1/4
					Sec 27, SW1/4 SW1/4
					Sec 34, N1/2 NW1/4, SE1/4 NW1/4, SW1/4 NE1/4, N1/2 SE1/4 SE1/4 SE1/4
				T. 7 S., R. 26 E.	Sec 11, NE1/4 NE1/4
					Sec 12, W1/2 NW1/4, SE1/4 NW1/4
				T. 7 S., R. 27 E.	Sec 18, SW1/4 NW1/4, N1/2 SW1/4
					Sec 20, W1/2 NE1/4, SE1/4 NE1/4, NE1/e SE1/4
					Sec 21, W1/2 SW1/4, SE1/4 SE1/4
					Sec 28, NE1/4 NW1/4, N1/2 NE1/4, SE1/4 NE1/4
					Sec 27, SW1/4 NW1/4, N1/2 SW1/4, SW1/4 SE1/4
					Sec 34, N1/2 NE1/4, SE1/4 NE1/4
					Sec 35, S1/2 NW1/4,NE1/4 SW1/4, W1/2 SE1/4, SE1/4 SE1/4
				T. 8 S., R. 27 E.	Sec 2, NE1/4 NE1/4
					Sec 1, W1/2 NW1/4, SE1/4 NW1/4, NE1/4 SW1/4, N1/2 SE1/4 SE1/4 SE1/4
				T. 8 S., R. 28 E.	Sec 6, SW1/4 SW1/4
					Sec 7, N1/2 NW1/4, W1/2 NE1/4, SE1/4 NE1/4, NE1/4 SE1/4
					Sec 8, W1/2 SW1/4, SE1/4 SW1/4
					Sec 17, NE1/4 NW1/4, W1/2 NE1/4, SE1/4 NE1/4
					Sec 21, N1/2 NE1/4
					Sec 22, W1/2 NW1/4, SE1/4 NW1/4, NE1/4 SW1/4, W1/2 SE1/4, SE1/4 SE1/4
					Sec 23, SW1/4 SW1/4
					Sec 26, N1/2 NW1/4, W1/2 NE1/4, SE1/4 NE1/4, NE1/4 SE1/4
					Sec 25, W1/2 SW1/4

Segment	Length	Begin MP [1]	End MP [1]	Legal Location	
				T. 8 S., R. 29 E.	SW1/4 SW1/4
				T. 9 S., R. 29 E.	Sec 6, N1/2 NW1/4, W1/2 NE1/4, SE1/4 SE1/4, NE1/4 SE1/4
					Sec 5, W1/2 SW1/4, SE1/4 SW1/4
					Sec 8, NE1/4 NW1/4, W1/2 NE1/4, SE1/4 NE1/4, NE1/4 SE1/4
					Sec 9, N1/2 SW1/4, SE1/4 SW1/4
Segment 7	32.8	46.91	14.33	**State Lands**	
				T. 13 S., R. 34 E.	Sec 16, W1/2 SW1/4, SE1/4 SW1/4
				T. 14 S., R. 35 E.	Sec 8, W1/2 NW1/4, SE1/4 NW1/4, NE1/4 SW1/4, W1/2 SE1/4, SE1/4 SE1/4
					Sec 17, NE1/4 NE1/4
					Sec 16, NW1/4 NW1/4, SE1/4 NW1/4, W1/2 SE1/4, SE1/4 SE1/4
					Sec 26, N1/2 NW1/4, SE1/4 NW1/4
				T. 15 S., R. 37 E.	Sec 32, SW1/4 NW1/4, W1/2 SW1/4, SE1/4 SW1/4
				T. 16 S., R. 38 E.	Sec 6, SW1/4 SW1/4
					Sec 7, NE1/4 SE1/4
					Sec 8, NW1/4 SW1/4, SE1/4 SW1/4
					Sec 17, NE1/4 NW1/4, W1/2 NE1/4, SE1/4 NE1/4, NE1/4 SE1/4
					Sec 16, W1/2 SW1/4, SE1/4 SW1/4
				Private Lands	
				T. 13 S., R. 34 E.	Sec 6, SW1/4 SW1/4
					Sec 7, N1/2 NW1/4, W1/2 NE1/4, SE1/4 NE1/4, NE1/4 SE1/4
					Sec 8, W1/2 SW1/4, SE1/4 SW1/4
					Sec 17, NE1/4 NW1/4, W1/2 NE1/4, SE1/4 NE1/4, NE1/4 SE1/4
					Sec 21, NE1/4 NW1/4, W1/2 NE1/4, SE1/4 NE1/4, NE1/4 SE1/4
					Sec 22, W1/2 SW1/4, SE1/4 SW1/4, SW1/4 SE1/4
					Sec 27, N1/2 NE1/4, SE1/4 NE1/4, NE1/4 SE1/4
					Sec 26, N1/2 SW1/4, SE1/4 SW1/4, SW1/4 SE1/4
					Sec 35, N1/2 NE1/4, SE1/4 NE1/4
					Sec 36, SW1/4 NW1/4, N1/2 SW1/4, SE1/4 SW1/4, SW1/4 SE1/4
				T. 14 S., R. 34 E.	Sec 1, NE1/4 NE1/4
				T. 14 S., R. 35 E.	Sec 6, W1/2 NW1/4, NE1/4 SW1/4, W1/2 SE1/4 SE1/4 SE1/4
					Sec 7, NE1/4 NE1/4

Segment	Length	Begin MP [1]	End MP [1]	Legal Location	
					Sec 16, SW1/4 NW1/4, NE1/4 SW1/4
					Sec 21, NE1/4 NE1/4
					Sec 22, W1/2 NW1/4, SE1/4 NW1/4, NE1/4 SW1/4, N1/2 SE1/4, SE1/4 SE1/4
					Sec 23 SW1/4 SW1/4
					Sec 26, SW1/4 NE1/4, N1/2 SE1/4, SE1/4 SE1/4
					Sec 25, W1/2 SW1/4, SE1/4 SW1/4
					Sec 36, NE1/4 NW1/4, W1/2 NE1/4 SE1/4 NE1/4, NE1/4 SE1/4
				T. 14 S., R. 36 E.	Sec 31, N1/2 SW1/4, SE1/4 SW1/4
				T. 15 S., R. 36 E.	Sec 6, N1/2 NE1/4, SE1/4 NE1/4
					Sec 5, S1/2 NW1/4, NE1/4 SW1/4, N1/2 SE1/4, SE1/4 SE1/4
					Sec 4, S1/2 SW1/4, SW1/4 SE1/4
					Sec 9, W1/2 NE1/4, N1/2 SE1/4, SE1/4 SE1/4
					Sec 10, SW1/4 SW1/4
					Sec 15, N1/2 NW1/4, SE1/4 NW1/4, SW1/4 NE1/4, N1/2 SE1/4 SE1/4 SE1/4
					Sec 14, SW1/4 SW1/4
					Sec 23, N1/2 NW1/4, W1/2 NE1/4, SE1/4 NE1/4, NE1/4 SE1/4
					Sec 24, W1/2 SW1/4, SE1/4 SW1/4
					Sec 25, NE1/4 NW1/4, W1/2 NE1/4, SE1/4 NE1/4
				T. 15 S., R. 37 E.	Sec 30, W1/2 SW1/4, SE1/4 SW1/4
					Sec 31, NE1/4 NW1/4, W1/2 NE1/4, SE1/4 NE1/4
					Sec 32, SW1/4 SE1/4
				T. 16 S., R. 37 E.	Sec 2, NE1/4 NW1/4, N1/2 NE1/4, SE1/4 NE1/4
					Sec 1, S1/2 NW1/4, NE1/4 SW1/4, N1/2 SE1/4 SE1/4 SE1/4
				T. 16 S., R. 38 E.	Sec 7, N1/2 SW1/4, W1/2 NE1/4, SE1/4 NE1/4
					Sec 8, SW1/4 SW1/4
					Sec 21, NE1/4 NW1/4, W1/2 NE1/4, SE1/4 NE1/4, NE1/4 SE1/4
					Sec 22, W1/2 SW1/4, SE1/4 SW1/4
					Sec 27, NE1/4 NW1/4

[1] Beginning and ending mileposts of the loop segments are associated with Enterprise MAPL's existing mainline system (comprised of the 695 and 701 pipelines).

APPENDIX C

TABLES

Table C-1
Temporary Use Areas

Segment	Milepost	Dimension (feet)	Purpose	Side of Right-of-Way	Acres	Land Ownership
Segment 1	415.61	50 x 1057	Tie-In	Working	1.52	BLM FFO
Segment 1	415.54	50 x 540	PI	Non-Working	1.33	BLM FFO
Segment 1	413.92	100 x 2311	HDD Pullback	Working	5.09	BLM FFO
Segment 1	413.92	123 x 194	HDD	Non-Working	0.49	BLM FFO
Segment 1	413.92	123 x 194	HDD	Non-Working	0.00	BLM FFO
Segment 1	413.46	140 x 393	HDD, Wetland/Waterbody Crossing	Working	1.25	BLM FFO
Segment 1	413.14	75 x 251	HDD, Wetland/Waterbody Crossing	Non-Working	0.28	BLM FFO
Segment 1	413.14	65 x 370	HDD, Wetland/Waterbody Crossing	Working	0.63	BLM FFO
Segment 1	412.89	25 x 125	Turn Around	Working	0.09	BLM FFO
Segment 1	412.12	25 x 230	PI, Cross-Over	Working	0.12	BLM FFO
Segment 1	412.10	25 x 205	PI, Cross-Over	Non-Working	0.12	BLM FFO
Segment 1	412.10	25 x 205	PI, Cross-Over	Non-Working	0.00	BLM FFO
Segment 1	411.95	50 x 310	Canal Crossing	Working	0.46	BLM FFO
Segment 1	411.95	50 x 310	Canal Crossing	Working	0.00	BLM FFO
Segment 1	411.93	25 x 222	Canal Crossing	Non-Working	0.09	BLM FFO
Segment 1	408.44	50 x 100	Staging	Non-Working	0.12	Private
Segment 1	404.60	75 x 200	Staging	Working	0.34	BLM FFO
Segment 1	400.77	150 x 941	Facility	Working	1.36	BLM FFO
Segment 1	400.77	150 x 941	Facility	Working	0.00	BLM FFO
Segment 1	397.21	25 x 400	Road Crossing (CR 7425)	Working	0.23	BIA/Tribal
Segment 1	395.79	25 x 200	PI, Cross-Over, Road Crossing (US-550)	Working	0.13	BLM FFO
Segment 1	395.68	25 x 225	PI, Road Crossing (US-550)	Non-Working	0.14	BIA/Tribal
Segment 1	395.06	25 x 200	Road Crossing (Indian Service)	Working	0.11	Private
Segment 1	395.00	25 x 200	Road Crossing (Indian Service)	Working	0.11	Private
Segment 1	390.81	65 x 400	Road Crossing (SH-57)	Working	0.57	BLM FFO
Segment 1	390.73	65 x 400	Road Crossing (SH-57)	Working	0.62	BLM FFO
Segment 1	388.43	65 x 200	Staging	Working	0.30	BLM FFO
Segment 1	386.19	65 x 200	Staging	Working	0.30	BLM FFO
Segment 1	382.56	25 x 125	Road Crossing (Indian Service)	Working	0.08	State
Segment 1	382.52	25 x 125	Road Crossing (Indian Service)	Working	0.06	State
Segment 1	382.39	50 x 200	Road Crossing (US-550)	Working	0.23	State
Segment 1	382.39	50 x 200	Road Crossing (US-550)	Working	0.00	State

Segment	Milepost	Dimension (feet)	Purpose	Side of Right-of-Way	Acres	Land Ownership
Segment 1	382.34	50 x 200	Road Crossing (US-550)	Working	0.25	State
Segment 1	379.29	65 x 400	Staging	Working	0.60	BLM FFO
Segment 1	378.27	65 x 200	Staging	Working	0.30	BLM FFO
Segment 1	376.26	65 x 400	Staging	Working	0.60	BLM FFO
Segment 1	375.84	50 x 70	Staging	Non-Working	0.08	BIA/Tribal
Segment 1	375.05	25 x 150	PI, Cross-Over	Non-Working	0.09	BIA/Tribal
Segment 1	371.56	25 x 151	PI	Working	0.08	BIA/Tribal
Segment 1	371.56	25 x 151	PI	Working	0.01	Private
Segment 1	371.29	65 x 266	Access	Working	0.38	Private
Segment 1	370.42	440 x 536	Tie-In	Working	0.26	BIA/Tribal
Segment 1	370.42	440 x 536	Tie-In	Working	0.79	Private
Segment 1	370.42	440 x 536	Tie-In	Working	1.33	BLM FFO
Segment 1	370.42	440 x 536	Tie-In	Working	0.00	BLM FFO
Segment 2	350.21	290 x 314	Tie-In	Working	1.39	BLM FFO
Segment 2	346.60	50 x 200	Road Crossing	Working	0.25	BLM FFO
Segment 2	346.56	50 x 200	Road Crossing	Working	0.21	BLM FFO
Segment 2	346.41	50 x 240	PI, Cross-Over	Working	0.34	BIA/Tribal
Segment 2	346.39	50 x 220	PI, Cross-Over	Non-Working	0.30	BIA/Tribal
Segment 2	340.50	50 x 200	Ingress / Egress, Road Crossing	Working	0.23	BLM RPFO
Segment 2	340.50	50 x 200	Ingress / Egress, Road Crossing	Working	0.00	BLM RPFO
Segment 2	340.22	50 x 200	Staging	Working	0.00	State
Segment 2	340.22	50 x 200	Staging	Working	0.00	State
Segment 2	340.22	50 x 200	Staging	Working	0.25	BLM RPFO
Segment 2	340.22	50 x 200	Staging	Working	0.00	BLM RPFO
Segment 2	336.65	50 x 150	Ingress / Egress, Road Crossing	Working	0.19	BLM RPFO
Segment 2	334.59	50 x 150	Ingress / Egress, Road Crossing (SR-197)	Working	0.18	BLM RPFO
Segment 2	334.55	50 x 150	Ingress / Egress, Road Crossing (SR-197)	Working	0.16	BLM RPFO
Segment 2	332.97	50 x 150	Ingress / Egress, Road Crossing (Torreon Mission)	Working	0.15	BIA/Tribal
Segment 2	332.93	50 x 150	Ingress / Egress, Road Crossing (Torreon Mission)	Working	0.19	BIA/Tribal
Segment 2	331.76	50 x 200	Ingress / Egress, Road Crossing (CR-85)	Working	0.25	BIA/Tribal
Segment 2	331.72	50 x 200	Ingress / Egress, Road Crossing (CR-85)	Working	0.21	BIA/Tribal
Segment 2	328.90	25 x 125	PI, Cross-Over	Working	0.08	BLM RPFO
Segment 2	328.86	25 x 125	PI, Cross-Over	Working	0.08	BLM RPFO
Segment 2	327.82	50 x 100	Ingress / Egress, Staging	Working	0.11	Private

Segment	Milepost	Dimension (feet)	Purpose	Side of Right-of-Way	Acres	Land Ownership
Segment 2	327.57	50 x 200	Ingress / Egress, Parking	Working	0.37	Private
Segment 2	327.32	25 x 100	PI	Working	0.05	BLM RPFO
Segment 2	327.25	25 x 100	PI	Working	0.07	BLM RPFO
Segment 2	324.32	137 x 110	PI, Facility	Non-Working	0.13	BLM RPFO
Segment 2	324.22	69 x 289	Facility	Non-Working	0.46	BLM RPFO
Segment 2	321.20	50 x 400	PI, Cross-Over	Non-Working	0.54	BLM RPFO
Segment 2	321.17	50 x 350	PI, Cross-Over	Non-Working	0.44	BLM RPFO
Segment 2	320.97	66 x 100	Access	Non-Working	0.12	BLM RPFO
Segment 2	320.54	50 x 1500	Wetland/Waterbody Crossing	Working	1.72	BLM RPFO
Segment 2	320.41	16 x 252	HDD	Working	0.05	BLM RPFO
Segment 2	320.13	26 x 203	HDD	Non-Working	0.12	BLM RPFO
Segment 2	320.12	65 x 300	Wetland/Waterbody Crossing	Working	0.45	BLM RPFO
Segment 2	316.74	50 x 300	Staging	Working	0.36	BLM RPFO
Segment 2	313.92	50 x 416	PI, Cross-Over	Non-Working	0.54	BLM RPFO
Segment 2	313.89	50 x 416	PI, Cross-Over	Non-Working	0.53	BLM RPFO
Segment 2	313.61	50 x 425	PI, Cross-Over	Non-Working	0.55	BLM RPFO
Segment 2	313.58	50 x 425	PI, Cross-Over	Non-Working	0.54	BLM RPFO
Segment 2	312.78	50 x 438	PI, Cross-Over	Non-Working	0.56	BIA/Tribal
Segment 2	312.76	50 x 325	PI, Cross-Over	Non-Working	0.45	BIA/Tribal
Segment 2	311.47	70 x 200	Wetland/Waterbody Crossing	Non-Working	0.31	BIA/Tribal
Segment 2	310.07	50 x 150	Staging	Working	0.18	BIA/Tribal
Segment 2	309.45	125 x 200	PI, Steep Slope	Working	0.53	BIA/Tribal
Segment 2	309.23	50 x 200	Access	Working	0.23	BIA/Tribal
Segment 2	309.23	50 x 200	Access	Working	0.00	BIA/Tribal
Segment 2	308.25	50 x 208	Access	Non-Working	0.22	BIA/Tribal
Segment 2	308.20	15 x 377	Staging	Non-Working	0.12	BIA/Tribal
Segment 2	308.20	10 x 348	Staging	Working	0.09	BIA/Tribal
Segment 2	307.93	72 x 78	Access	Non-Working	0.09	BIA/Tribal
Segment 2	307.93	56 x 313	Staging	Working	0.21	BIA/Tribal
Segment 2	307.93	72 x 78	Access	Non-Working	0.00	BIA/Tribal
Segment 2	307.17	50 x 382	PI, Cross-Over	Non-Working	0.50	BIA/Tribal
Segment 2	307.14	50 x 382	PI, Cross-Over	Non-Working	0.50	BIA/Tribal
Segment 2	306.55	50 x 200	Staging	Working	0.23	BIA/Tribal
Segment 2	305.37	50 x 165	PI, Steep Slope	Working	0.21	Private

Segment	Milepost	Dimension (feet)	Purpose	Side of Right-of-Way	Acres	Land Ownership
Segment 2	305.37	50 x 165	PI, Steep Slope	Working	0.02	BLM RPFO
Segment 2	305.33	70 x 198	PI, Steep Slope	Non-Working	0.25	BLM RPFO
Segment 2	305.17	70 x 200	Wetland/Waterbody Crossing	Non-Working	0.28	BLM RPFO
Segment 2	305.04	100 x 178	PI, Change Direction	Non-Working	0.70	State
Segment 2	305.04	100 x 178	PI, Change Direction	Non-Working	0.21	BLM RPFO
Segment 2	301.78	50 x 260	Staging	Non-Working	0.15	Private
Segment 2	301.78	50 x 260	Staging	Non-Working	0.17	BLM RPFO
Segment 2	301.12	100 x 311	HDD Pullback (Alternate Option)	Non-Working	0.53	BIA/Tribal
Segment 2	300.05	50 x 200	Ingress / Egress, Road Crossing (Cabezon)	Working	0.23	BIA/Tribal
Segment 2	299.42	81 x 122	Tie-In	Non-Working	0.18	BIA/Tribal
Segment 2	299.42	81 x 122	Tie-In	Non-Working	0.00	BIA/Tribal
Segment 2	299.41	171 x 301	Staging	Non-Working	1.01	BIA/Tribal
Segment 2	299.41	50 x 200	Tie-In	Working	0.33	BIA/Tribal
Segment 2	299.41	171 x 301	Staging	Non-Working	0.00	BIA/Tribal
Segment 3	270.04	50 x 200	Tie-In	Working	0.29	Private
Segment 3	270.04	50 x 200	Tie-In	Working	0.00	Private
Segment 3	267.31	50 x 400	Ingress / Egress, Road Crossing (La Madera)	Working	0.46	Private
Segment 3	266.32	25 x 200	Steep Slope	Working	0.12	Private
Segment 3	265.93	25 x 200	PI	Working	0.11	State
Segment 3	265.33	50 x 335	PI, Cross-Over	Non-Working	0.44	Private
Segment 3	265.31	50 x 335	PI, Cross-Over	Non-Working	0.44	Private
Segment 3	264.85	50 x 200	Staging	Working	0.23	Private
Segment 3	264.36	25 x 180	Staging	Working	0.10	BLM RPFO
Segment 3	262.98	60 x 100	Parking	Non-Working	0.13	Private
Segment 3	261.69	25 x 615	Road Crossing (SR-14)	Non-Working	0.25	Private
Segment 3	260.59	50 x 200	Staging	Working	0.23	Private
Segment 3	258.93	50 x 320	PI, Cross-Over	Non-Working	0.40	Private
Segment 3	258.90	50 x 350	PI, Cross-Over	Non-Working	0.47	Private
Segment 3	258.32	50 x 344	PI, Cross-Over	Non-Working	0.44	Private
Segment 3	258.30	50 x 345	PI, Cross-Over	Non-Working	0.45	Private
Segment 3	257.84	50 x 100	Ingress / Egress, Parking	Non-Working	0.11	Private
Segment 3	256.16	50 x 400	PI, Cross-Over	Non-Working	0.52	Private
Segment 3	255.52	50 x 200	PI, Cross-Over	Working	0.23	Private
Segment 3	255.48	50 x 468	PI, Cross-Over, Road Crossing (Entranosa)	Non-Working	0.65	Private

Segment	Milepost	Dimension (feet)	Purpose	Side of Right-of-Way	Acres	Land Ownership
Segment 3	255.42	50 x 150	Road Crossing (Entranosa)	Working	0.17	Private
Segment 3	255.42	50 x 150	Road Crossing (Entranosa)	Working	0.00	Private
Segment 3	254.44	25 x 150	Road Crossing (Frost)	Working	0.09	Private
Segment 3	254.40	25 x 170	Road Crossing (Frost)	Working	0.09	Private
Segment 3	252.82	50 x 200	PI, Cross-Over, Road Crossing (Nugent)	Working	0.23	Private
Segment 3	252.78	50 x 175	PI, Cross-Over, Road Crossing (Nugent)	Working	0.26	Private
Segment 3	252.19	50 x 200	Road Crossing (SR-344)	Working	0.23	Private
Segment 3	252.11	50 x 628	Facility	Working	0.96	Private
Segment 3	251.22	60 x 260	Access	Working	0.36	Private
Segment 3	248.46	50 x 230	PI, Cross-Over	Non-Working	0.22	Private
Segment 3	246.48	50 x 150	Road Crossing (Venus)	Working	0.17	Private
Segment 3	245.27	25 x 132	Road Crossing (Dinkle)	Working	0.06	Private
Segment 3	245.27	140 x 133	Road Crossing (Dinkle)	Working	0.20	Private
Segment 3	245.23	25 x 150	Road Crossing (Dinkle)	Working	0.09	Private
Segment 3	245.12	50 x 295	PI, Cross-Over	Non-Working	0.40	Private
Segment 3	245.10	50 x 295	PI, Cross-Over	Non-Working	0.40	Private
Segment 3	242.83	25 x 168	Road Crossing (Martin)	Working	0.09	Private
Segment 3	242.79	25 x 153	Road Crossing (Martin)	Working	0.09	Private
Segment 3	238.44	25 x 150	Road Crossing (SR-41)	Working	0.08	Private
Segment 3	238.39	50 x 150	Road Crossing (SR-41)	Working	0.17	Private
Segment 3	236.18	192 x 750	HDD (I-40), Staging	Non-Working	2.73	Private
Segment 3	236.17	50 x 670	HDD (I-40)	Non-Working	0.79	Private
Segment 3	235.88	100 x 1300	HDD (I-40) Pullback	Working	3.54	Private
Segment 3	235.36	25 x 200	PI, Cross-Over	Working	0.11	Private
Segment 3	235.35	50 x 100	PI, Cross-Over	Non-Working	0.11	Private
Segment 3	234.96	25 x 100	Road Crossing (Martinez)	Working	0.06	Private
Segment 3	234.93	50 x 100	Road Crossing (Martinez)	Working	0.11	Private
Segment 3	233.44	50 x 344	PI, Cross-Over	Non-Working	0.45	State
Segment 3	233.41	50 x 343	PI, Cross-Over	Non-Working	0.45	State
Segment 3	232.62	65 x 150	Road Crossing (Stagecoach)	Working	0.27	Private
Segment 3	232.58	25 x 174	Road Crossing (Stagecoach)	Working	0.09	Private
Segment 3	232.10	50 x 150	Foreign Line Crossing	Working	0.18	Private
Segment 3	229.06	50 x 150	Ingress / Egress, Road Crossing (Unknown)	Working	0.17	Private
Segment 3	225.48	50 x 150	Road Crossing (Unknown)	Working	0.17	Private

Segment	Milepost	Dimension (feet)	Purpose	Side of Right-of-Way	Acres	Land Ownership
Segment 3	223.55	65 x 230	Road Crossing (CR-A080)	Working	0.31	State
Segment 5	175.00	276 x 530	Tie-In	Working	0.14	Private
Segment 5	175.00	276 x 530	Tie-In	Working	1.49	BLM RFO
Segment 5	170.97	50 x 300	Road Crossing (Unknown)	Working	0.34	BLM RFO
Segment 5	168.16	50 x 400	Road Crossings (CR-3Ka & Unknown)	Working	0.00	Private
Segment 5	168.16	50 x 400	Road Crossings (CR-3Ka & Unknown)	Working	0.46	BLM RFO
Segment 5	165.31	50 x 300	Staging	Working	0.34	State
Segment 5	165.31	50 x 300	Staging	Working	0.00	State
Segment 5	163.02	50 x 400	Road Crossing (Fo27)	Working	0.00	Private
Segment 5	163.02	50 x 400	Road Crossing (Fo27)	Working	0.46	State
Segment 5	161.42	50 x 400	Staging	Working	0.34	State
Segment 5	158.57	50 x 300	Staging	Working	0.34	State
Segment 5	157.75	50 x 200	Road Crossing (Fo34)	Working	0.23	Private
Segment 5	156.11	65 x 230	Road Crossing (Unknown)	Working	0.35	Private
Segment 5	153.33	50 x 200	Road Crossing (Fo36)	Working	0.26	Private
Segment 5	150.87	50 x 200	Staging	Working	0.23	Private
Segment 5	149.75	50 x 450	Road Crossing (US-285)	Working	0.24	Private
Segment 5	149.75	50 x 450	Road Crossing (US-285)	Working	0.29	Private
Segment 5	149.62	195 x 285	Road Crossing (US-285)	Working	0.69	Private
Segment 5	146.91	50 x 205	Road Crossing (CR-1-51)	Working	0.21	Private
Segment 5	146.88	50 x 150	Road Crossing (CR-1-51)	Working	0.20	Private
Segment 5	144.76	50 x 200	Road Crossing (CR-1-42)	Working	0.24	Private
Segment 5	144.72	83 x 203	Tie-In, Road Crossing (CR-1-42)	Working	0.54	Private
Segment 6	107.96	300 x 365	Tie-In	Working	1.27	Private
Segment 6	105.84	65 x 425	Wetland/Waterbody Crossing (Pecos River)	Working	0.47	BLM RFO
Segment 6	105.70	50 x 290	HDD	Non-Working	0.33	BLM RFO
Segment 6	105.50	50 x 295	HDD	Non-Working	0.34	Private
Segment 6	105.29	25 x 1644	Wetland/Waterbody Crossing (Pecos River)	Working	0.92	Private
Segment 6	102.70	50 x 148	Road Crossing (CR-1)	Working	0.17	Private
Segment 6	102.70	50 x 148	Road Crossing (CR-1)	Working	0.01	BLM RFO
Segment 6	102.65	50 x 228	Road Crossing (CR-1)	Working	0.02	State
Segment 6	102.65	50 x 228	Road Crossing (CR-1)	Working	0.22	BLM RFO
Segment 6	101.81	50 x 190	Road Crossing (CR-1)	Working	0.19	State
Segment 6	100.48	50 x 150	Wetland/Waterbody Crossing	Working	0.17	BLM RFO

Segment	Milepost	Dimension (feet)	Purpose	Side of Right-of-Way	Acres	Land Ownership
Segment 6	100.25	50 x 450	Wetland/Waterbody Crossing	Working	0.52	BLM RFO
Segment 6	98.09	50 x 150	Staging	Working	0.17	BLM RFO
Segment 6	97.84	50 x 150	PI	Working	0.19	BLM RFO
Segment 6	97.27	50 x 400	Foreign Line Crossing	Working	0.46	Private
Segment 6	95.55	50 x 150	Foreign Line Crossing	Working	0.17	Private
Segment 6	93.24	50 x 150	Road Crossing (CR-2)	Working	0.18	Private
Segment 6	93.20	50 x 170	Road Crossing (CR-2)	Working	0.18	Private
Segment 6	93.01	50 x 168	Road Crossing (US-70)	Working	0.21	Private
Segment 6	92.93	50 x 304	Road Crossing (US-70)	Working	0.38	Private
Segment 6	91.65	50 x 300	RR Crossing	Working	0.34	Private
Segment 6	91.46	50 x 300	RR Crossing	Working	0.34	Private
Segment 6	89.54	50 x 300	Road Crossing (Unknown)	Working	0.34	Private
Segment 6	86.31	50 x 200	Road Crossing (CR-50)	Working	0.24	Private
Segment 6	86.27	50 x 185	Road Crossing (CR-50)	Working	0.19	Private
Segment 6	82.57	50 x 150	Foreign Line Crossing	Working	0.20	Private
Segment 6	81.51	30 x 50	Ingress / Egress	Non-Working	0.03	Private
Segment 6	80.59	65 x 200	Staging	Working	0.30	State
Segment 6	80.54	50 x 690	Facility	Non-Working	0.27	State
Segment 7	46.90	65 x 545	Tie-In	Working	1.31	Private
Segment 7	43.22	50 x 192	Road Crossing (CR-149)	Working	0.20	Private
Segment 7	43.18	50 x 150	Road Crossing (CR-149)	Working	0.20	Private
Segment 7	40.97	50 x 150	Road Crossing (CR-147)	Working	0.20	Private
Segment 7	40.93	50 x 200	Road Crossing (CR-147)	Working	0.20	Private
Segment 7	39.18	50 x 194	Road Crossing (CR-147)	Working	0.20	Private
Segment 7	39.14	50 x 150	Road Crossing (CR-147)	Working	0.20	Private
Segment 7	33.75	50 x 188	Road Crossing (CR-109)	Working	0.19	Private
Segment 7	33.70	50 x 150	Road Crossing (CR-109)	Working	0.20	Private
Segment 7	33.49	50 x 260	Road Crossing (Hillburn)	Working	0.26	State
Segment 7	31.92	50 x 150	Road Crossing (CR-107)	Working	0.21	Private
Segment 7	31.87	50 x 208	Road Crossing (CR-107)	Working	0.21	Private
Segment 7	31.09	50 x 150	Road Crossing (Reed)	Working	0.19	Private
Segment 7	30.33	50 x 150	Road Crossing (CR-106)	Working	0.21	Private
Segment 7	30.28	50 x 208	Road Crossing (CR-106)	Working	0.21	Private
Segment 7	29.87	50 x 175	Road Crossing (Six Shooter)	Working	0.19	Private

Segment	Milepost	Dimension (feet)	Purpose	Side of Right-of-Way	Acres	Land Ownership
Segment 7	28.72	50 x 200	PI, Road Crossing (SH-18)	Working	0.25	Private
Segment 7	28.27	65 x 128	PI, Road Crossing (E. Crockett / CR-114)	Working	0.19	Private
Segment 7	26.08	50 x 200	Road Crossing (CR-113)	Working	0.23	Private
Segment 7	24.66	50 x 150	Road Crossing (US-82)	Working	0.18	Private
Segment 7	24.61	50 x 212	Road Crossing (US-82)	Working	0.23	Private
Segment 7	23.21	50 x 194	Road Crossing (CR-115)	Working	0.20	Private
Segment 7	23.20	50 x 312	Staging	Working	0.32	State
Segment 7	23.17	50 x 150	Road Crossing (CR-115)	Working	0.20	Private
Segment 7	20.35	50 x 192	Road Crossing (Wilkes)	Working	0.20	Private
Segment 7	20.32	50 x 150	Road Crossing (Wilkes)	Working	0.20	Private
Segment 7	18.97	50 x 150	Road Crossing (SH-133)	Working	0.02	Private
Segment 7	18.97	50 x 150	Road Crossing (SH-133)	Working	0.17	State
Segment 7	18.70	50 x 295	Road Crossing (SR-83)	Working	0.38	State
Segment 7	18.62	113 x 120	Road Crossing (SR-83)	Working	0.18	Private
Segment 7	14.33	50 x 156	Tie-In	Working	0.24	Private
				Total Acres	**84.8**	

Table C-2
Existing Roads that Would Be Crossed or Used as Access Roads for the WEP III

MP	Name	Surface	Crossing Method	Ingress	Construction Access Name	County	Land Ownership
415.69	CR-4980	Gravel	N/A	YES	S1-CA-415.69	San Juan	BLM FFO
415.55	Road 4980	Dirt	Open Cut	YES	S1-CA-415.55	San Juan	BLM FFO
415.35	Unknown Road	Dirt	Open Cut	YES	S1-CA-415.35	San Juan	BLM FFO
415.29	Unknown Road	Dirt	Open Cut	NO		San Juan	BLM FFO
415.22	Unknown Road	Dirt	Open Cut	YES	S1-CA-415.22	San Juan	BLM FFO
415.00	Unknown Road	Dirt	Open Cut	NO		San Juan	BLM FFO
414.76	Unknown Road	Dirt	Open Cut	YES	S1-CA-414.76	San Juan	BLM FFO
414.45	Unknown Road	Dirt	Open Cut	YES	S1-CA-414.45	San Juan	BLM FFO
414.36	Unknown Road	Dirt	Open Cut	NO		San Juan	BLM FFO
414.30	Unknown Road	Dirt	Open Cut	YES	S1-CA-414.30	San Juan	BLM FFO
413.46	Unknown Road*	Dirt	Open Cut	YES	S1-CA-413.46	San Juan	BLM FFO
413.08	Unknown Road	Dirt	Open Cut	YES	S1-CA-413.08	San Juan	BLM FFO
412.89	Unknown Road	Dirt	Open Cut	YES	S1-CA-412.89	San Juan	BLM FFO
412.76	Unknown Road	Dirt	Open Cut	YES	S1-CA-412.76	San Juan	BLM FFO
412.58	Unknown Road	Dirt	Open Cut	YES	S1-CA-412.58	San Juan	BLM FFO
412.47	Unknown Road	Dirt	Open Cut	YES	S1-CA-412.47	San Juan	BLM FFO
412.46	Unknown Road	Dirt	Open Cut	YES	S1-CA-412.46	San Juan	BLM FFO
412.32	Unknown Road	Dirt	Open Cut	YES	S1-CA-412.32	San Juan	BLM FFO
412.30	Unknown Road	Dirt	Open Cut	YES	S1-CA-412.30	San Juan	BLM FFO
412.26	Unknown Road	Dirt	Open Cut	YES	S1-CA-412.26	San Juan	BLM FFO
412.08	Unknown Road	Dirt	Open Cut	YES	S1-CA-412.08	San Juan	BLM FFO
411.51	Unknown Road	Dirt	Open Cut	NO		San Juan	BLM FFO
411.32	Unknown Road	Dirt	Open Cut	YES	S1-CA-411.32	San Juan	BLM FFO
411.03	Unknown Road	Dirt	Open Cut	YES	S1-CA-411.03	San Juan	BLM FFO
410.71	CR-7020	Dirt	Bore	YES	S1-CA-410.71	San Juan	BLM FFO
410.52	Unknown Road	Dirt	Open Cut	NO		San Juan	BLM FFO

MP	Name	Surface	Crossing Method	Ingress	Construction Access Name	County	Land Ownership
410.31	Unknown Road	Dirt	Open Cut	NO		San Juan	BLM FFO
409.58	Unknown Road	Dirt	Open Cut	NO		San Juan	BLM FFO
409.10	Unknown Road	Dirt	Open Cut	NO		San Juan	BLM FFO
408.80	Unknown Road	Gravel	Open Cut	YES	S1-CA-408.80	San Juan	BLM FFO
408.44	Unknown Road	Dirt	Open Cut	YES	S1-CA-408.44	San Juan	Private
408.39	Unknown Road	Dirt	Open Cut	YES	S1-CA-408.39	San Juan	Private
408.14	Unknown Road	Dirt	Open Cut	NO		San Juan	Private
407.82	Unknown Road	Dirt	Open Cut	NO		San Juan	Private
407.44	Unknown Road	Dirt	Open Cut	NO		San Juan	Private
407.20	Unknown Road	Dirt	Open Cut	NO		San Juan	Private
406.89	Unknown Road	Dirt	Open Cut	YES	S1-CA-406.89	San Juan	Private
406.35	Unknown Road	Dirt	Open Cut	NO		San Juan	Private
406.22	Unknown Road	Dirt	Open Cut	NO		San Juan	Private
406.13	Unknown Road	Dirt	Open Cut	NO		San Juan	Private
405.96	Unknown Road	Dirt	Open Cut	YES	S1-CA-405.96	San Juan	BLM FFO
405.92	Unknown Road	Dirt	Open Cut	NO		San Juan	BLM FFO
404.50	CR-7175	Gravel	HDD	YES	S1-CA-404.50	San Juan	Private
403.61	CR-7225	Gravel	Bore	YES	S1-CA-403.61	San Juan	BLM FFO
402.40	Unknown Road	Dirt	Open Cut	YES	S1-CA-402.40	San Juan	BLM FFO
401.70	Unknown Road	Dirt	Open Cut	YES	S1-CA-401.70	San Juan	BLM FFO
400.83	Unknown Road	Dirt	Bore	YES	S1-CA-400.83	San Juan	BLM FFO
398.58	Unknown Road	Dirt	Open Cut	YES	S1-CA-398.58	San Juan	BLM FFO
397.59	Unknown Road	Dirt	Open Cut	YES	S1-CA-397.59	San Juan	BLM FFO
397.18	CR-7425	Gravel	Bore	YES	S1-CA-397.18	San Juan	BIA/Tribal
396.69	Unknown Road	Dirt	Open Cut	NO		San Juan	BIA/Tribal
396.55	Unknown Road	Dirt	Open Cut	YES	S1-CA-396.55	San Juan	BIA/Tribal
396.52	Unknown Road	Dirt	Open Cut	YES	S1-CA-396.52	San Juan	BIA/Tribal
396.05	Unknown Road*	Dirt	N/A	YES	S1-CA-396.05	San Juan	BIA/Tribal

MP	Name	Surface	Crossing Method	Ingress	Construction Access Name	County	Land Ownership
395.73	US-550	Paved	Bore	NO		San Juan	BIA/Tribal
395.04	CR-7500 (Indian Service Route 7023)	Gravel	Open Cut	YES	S1-CA-395.04	San Juan	Private
394.33	Private Driveway	Dirt	Open Cut	NO		San Juan	BIA/Tribal
394.23	Unknown Road	Dirt	Open Cut	NO		San Juan	BIA/Tribal
394.08	Unknown Road	Dirt	Open Cut	NO		San Juan	BIA/Tribal
393.94	Unknown Road	Dirt	Open Cut	NO		San Juan	BIA/Tribal
393.55	Unknown Road	Dirt	Open Cut	NO		San Juan	BIA/Tribal
393.51	Unknown Road	Dirt	Open Cut	NO		San Juan	BIA/Tribal
393.45	CR-7592	Chip & Seal	Open Cut	YES	S1-CA-393.45	San Juan	BIA/Tribal
393.32	Unknown Road	Dirt	Open Cut	NO		San Juan	BIA/Tribal
393.01	CR-7595	Dirt	Bore	YES	S1-CA-393.01	San Juan	BLM FFO
392.41	Unknown Road	Dirt	Open Cut	NO		San Juan	BLM FFO
391.32	Unknown Road	Dirt	Open Cut	NO		San Juan	BLM FFO
391.24	Unknown Road	Dirt	Open Cut	NO		San Juan	BLM FFO
390.76	SR-57	Gravel	Bore	YES	S1-CA-390.76	San Juan	BLM FFO
390.53	Unknown Road	Dirt	Open Cut	NO		San Juan	BLM FFO
390.21	Unknown Road	Dirt	Open Cut	NO		San Juan	BLM FFO
389.39	Unknown Road	Dirt	Open Cut	NO		San Juan	Private
389.01	Unknown Road	Dirt	Open Cut	NO		San Juan	BLM FFO
388.96	Unknown Road	Dirt	Open Cut	NO		San Juan	BLM FFO
385.05	Unknown Road	Dirt	Open Cut	NO		San Juan	BLM FFO
384.80	Unknown Road	Dirt	Open Cut	NO		San Juan	BLM FFO
384.29	Unknown Road	Dirt	Open Cut	NO		San Juan	BIA/Tribal
384.20	Unknown Road	Dirt	Open Cut	NO		San Juan	BIA/Tribal
384.10	Unknown Road	Dirt	Open Cut	NO		San Juan	BIA/Tribal
383.76	Unknown Road	Dirt	Open Cut	YES	S1-CA-383.76	San Juan	BLM FFO
383.60	CR-7786	Gravel	Open Cut	YES	S1-CA-383.60	San Juan	BLM FFO

MP	Name	Surface	Crossing Method	Ingress	Construction Access Name	County	Land Ownership
382.56	CR-7800 (Indian Service Route 45)	Paved	Bore	YES	S1-CA-382.56	San Juan	State
382.36	US-550	Paved	Bore	YES	S1-CA-382.36	San Juan	State
382.21	Unknown Road*	Dirt	Open Cut	YES	S1-CA-382.21	San Juan	BLM FFO
380.20	Unknown Road	Dirt	Open Cut	YES	S1-CA-380.20	San Juan	BIA/Tribal
376.83	CR-7997	Gravel	Open Cut	YES	S1-CA-376.83	San Juan	BIA/Tribal
376.15	CR-7998	Gravel	Open Cut	YES	S1-CA-376.15	San Juan	BLM FFO
375.84	Unknown Road	Dirt	N/A	YES	S1-CA-375.84	San Juan	BIA/Tribal
374.93	Unknown Road	Gravel	Open Cut	YES	S1-CA-374.93	Rio Arriba	BIA/Tribal
374.52	Unknown Road*	Dirt	N/A	YES	S1-CA-374.52	Rio Arriba	BIA/Tribal
374.16	Unknown Road*	Dirt	Open Cut	YES	S1-CA-374.16	Rio Arriba	BIA/Tribal
373.74	Unknown Road	Dirt	Open Cut	YES	S1-CA-373.74	Rio Arriba	BIA/Tribal
372.74	CR-377	Dirt	Open Cut	YES	S1-CA-372.74	Rio Arriba	BLM FFO
372.66	Unknown Road	Gravel	Open Cut	YES	S1-CA-372.66	Rio Arriba	BLM FFO
371.95	Unknown Road	Gravel	Open Cut	YES	S1-CA-371.95	Rio Arriba	Private
371.58	Unknown Road	Dirt	Open Cut	YES	S1-CA-371.58	Rio Arriba	BIA/Tribal
371.28	Unknown Road	Gravel	Open Cut	YES	S1-CA-371.28	Rio Arriba	Private
370.40	CR-378	Gravel	N/A	YES	S1-CA-370.40	Rio Arriba	Private
350.19	Unknown Road*	Dirt	Open Cut	YES	S2-CA-350.19	McKinley	BLM FFO
347.62	Unknown Road	Dirt	Open Cut	NO		McKinley	BLM FFO
346.60	Ojo Encino Road	Paved	Bore	YES	S2-CA-346.60	McKinley	BLM FFO
346.05	Indian Service Route 475	Dirt	Open Cut	YES	S2-CA-346.05	McKinley	BIA/Tribal
345.06	Eagle Nest Road	Dirt	Open Cut	YES	S2-CA-345.06	McKinley	BIA/Tribal
342.37	Unknown Road	Dirt	Open Cut	NO		Sandoval	BIA/Tribal
341.90	Unknown Road	Dirt	Open Cut	NO		Sandoval	BLM RPFO
341.52	Unknown Road	Dirt	Open Cut	YES	S2-CA-341.52	Sandoval	BLM RPFO
341.47	Unknown Road	Dirt	Open Cut	YES	S2-CA-341.47	Sandoval	BLM RPFO
340.52	Unknown Road	Dirt	Open Cut	YES	S2-CA-340.52	Sandoval	BLM RPFO

MP	Name	Surface	Crossing Method	Ingress	Construction Access Name	County	Land Ownership
339.95	Unknown Road	Dirt	Open Cut	NO		Sandoval	State
336.65	Unknown Road	Gravel	Open Cut	YES	S2-CA-336.65	Sandoval	BLM RPFO
334.58	SR-197	Paved	Bore	YES	S2-CA-334.58	Sandoval	BLM RPFO
333.63	Unknown Road	Dirt	Open Cut	YES	S2-CA-333.63	Sandoval	BLM RPFO
332.93	Torreon Mission Road	Paved	Bore	YES	S2-CA-332.93	Sandoval	BIA/Tribal
332.40	Unknown Road	Gravel	Open Cut	YES	S2-CA-332.40	Sandoval	BIA/Tribal
331.76	San Louis to Torreon Cut-Off	Paved	Bore	YES	S2-CA-331.76	Sandoval	BIA/Tribal
331.74	Unknown Road	Dirt	Open Cut	YES	S2-CA-331.74	Sandoval	BIA/Tribal
331.42	Unknown Road	Gravel	Open Cut	YES	S2-CA-331.42	Sandoval	BIA/Tribal
331.21	Unknown Road	Dirt	Open Cut	YES	S2-CA-331.21	Sandoval	BIA/Tribal
330.00	Unknown Road	Gravel	Open Cut	YES	S2-CA-330.00	Sandoval	BIA/Tribal
329.98	Unknown Road	Dirt	Open Cut	YES	S2-CA-329.98	Sandoval	BIA/Tribal
329.02	Unknown Road	Dirt	Open Cut	YES	S2-CA-329.02	Sandoval	BLM RPFO
328.86	Unknown Road	Dirt	N/A	YES	S2-CA-328.86	Sandoval	BLM RPFO
328.70	Unknown Road*	Dirt	N/A	YES	S2-CA-328.70	Sandoval	BLM RPFO
328.51	Unknown Road	Dirt	N/A	YES	S2-CA-328.51	Sandoval	Private
328.46	Unknown Road	Dirt	Open Cut	NO		Sandoval	Private
327.28	Unknown Road	Dirt	Open Cut	YES	S2-CA-327.28	Sandoval	BLM RPFO
326.03	Unknown Road	Dirt	Open Cut	YES	S2-CA-326.03	Sandoval	BLM RPFO
324.64	BLM 1102 Road	Dirt	Open Cut	YES	S2-CA-324.64	Sandoval	BLM RPFO
324.53	Unknown Road	Gravel	Open Cut	YES	S2-CA-324.53	Sandoval	BLM RPFO
324.50	Unknown Road	Gravel	Open Cut	YES	S2-CA-324.50	Sandoval	BLM RPFO
324.34	Unknown Road	Gravel	Open Cut	YES	S2-CA-324.34	Sandoval	BLM RPFO
323.36	Unknown Road	Dirt	Open Cut	YES	S2-CA-323.36	Sandoval	BLM RPFO
322.46	Unknown Road*	Dirt	Open Cut	YES	S2-CA-322.46	Sandoval	BLM RPFO
320.96	Unknown Road	Dirt	N/A	YES	S2-CA-320.96	Sandoval	BLM RPFO
320.65	SR-279	Gravel	Bore	YES	S2-CA-320.65	Sandoval	BLM RPFO

MP	Name	Surface	Crossing Method	Ingress	Construction Access Name	County	Land Ownership
319.30	West Ridge Road*	Dirt	Open Cut	YES	S2-CA-319.30	Sandoval	BLM RPFO
312.83	Ridge Road (Indian Service Route 3)	Dirt	Open Cut	YES	S2-CA-312.83	Sandoval	BIA/Tribal
309.22	Unknown Road*	Dirt	Open Cut	YES	S2-CA-309.22	Sandoval	BIA/Tribal
308.06	Unknown Road*	Dirt	N/A	YES	S2-CA-308.06	Sandoval	BIA/Tribal
306.57	Unknown Road	Dirt	Open Cut	YES	S2-CA-306.57	Sandoval	BIA/Tribal
306.48	Unknown Road	Dirt	Open Cut	YES	S2-CA-306.48	Sandoval	BIA/Tribal
306.28	Unknown Road	Dirt	Open Cut	YES	S2-CA-306.28	Sandoval	Private
305.39	Unknown Road*	Dirt	Open Cut	YES	S2-CA-305.39	Sandoval	Private
305.04	Unknown Road*	Dirt	Open Cut	YES	S2-CA-305.04	Sandoval	BLM RPFO
301.80	Unknown Road	Dirt	N/A	YES	S2-CA-301.80	Sandoval	BLM RPFO
301.06	Unknown Road	Dirt	Open Cut	YES	S2-CA-301.06	Sandoval	Private
300.97	Unknown Road	Dirt	Open Cut	YES	S2-CA-300.97	Sandoval	Private
300.76	Unknown Road	Dirt	Open Cut	YES	S2-CA-300.76	Sandoval	Private
300.07	Cabazon Road (White Mesa Road)	Gravel	Bore	YES	S2-CA-300.07	Sandoval	BIA/Tribal
299.81	Unknown Road	Gravel	Open Cut	YES	S2-CA-299.81	Sandoval	BIA/Tribal
299.65	Unknown Road	Gravel	Open Cut	YES	S2-CA-299.65	Sandoval	BIA/Tribal
299.43	Unknown Road	Gravel	Open Cut	YES	S2-CA-299.43	Sandoval	BIA/Tribal
267.32	La Madera Road	Gravel	Open Cut	YES	S3-CA-267.32	Sandoval	Private
266.71	Unknown Road*	Dirt	Open Cut	YES	S3-CA-266.71	Sandoval	Private
265.34	Dementrio Road	Dirt	Open Cut	YES	S3-CA-265.34	Sandoval	Private
262.97	Unknown Road	Gravel	Open Cut	YES	S3-CA-262.97	Sandoval	Private
261.93	Unknown Road	Dirt	Open Cut	YES	S3-CA-261.93	Sandoval	Private
261.75	Unknown Road	Gravel	Open Cut	YES	S3-CA-261.75	Sandoval	Private
261.69	SR-14	Paved	Bore	YES	S3-CA-261.69	Sandoval	Private
260.42	Unknown Road	Dirt	Open Cut	NO		Bernalillo	Private
258.81	Unknown Road	Dirt	Open Cut	NO		Bernalillo	Private
257.84	Unknown Road*	Dirt	N/A	YES	S3-CA-257.84	Bernalillo	Private

MP	Name	Surface	Crossing Method	Ingress	Construction Access Name	County	Land Ownership
257.02	Entranosa Loop Road	Dirt	Open Cut	NO		Bernalillo	Private
256.16	Broken Arrow Road (CR-3A)	Gravel	N/A	YES	S3-CA-256.16	Santa Fe	Private
255.50	Broken Arrow Road (CR-3A)	Gravel	Bore	YES	S3-CA-255.50	Santa Fe	Private
255.43	Entranosa Road (CR-18)	Gravel	Open Cut	YES	S3-CA-255.43	Santa Fe	Private
254.42	Frost Road East (SR-472)	Paved	Bore	YES	S3-CA-254.42	Santa Fe	Private
253.10	Horton Road (CR-5)	Dirt	Open Cut	YES	S3-CA-253.10	Santa Fe	Private
252.95	Field Road	Gravel	Open Cut	YES	S3-CA-252.95	Santa Fe	Private
252.79	Nugent Road (CR-14)	Gravel	Bore	YES	S3-CA-252.79	Santa Fe	Private
252.62	Field Road	Gravel	Open Cut	YES	S3-CA-252.62	Santa Fe	Private
252.17	SR-344	Paved	Bore	YES	S3-CA-252.17	Santa Fe	Private
251.22	Ranch Road	Dirt	N/A	YES	S3-CA-251.22	Santa Fe	Private
246.48	Field Road*	Dirt	Open Cut	YES	S3-CA-246.48	Santa Fe	Private
245.25	Dinkle Road (CR-8)	Paved	Bore	YES	S3-CA-245.25	Santa Fe	Private
245.11	Field Road	Dirt	Open Cut	NO		Santa Fe	Private
242.79	Martin Road (CR-17)	Paved	Bore	YES	S3-CA-242.79	Santa Fe	Private
241.91	Snow Moon Estates Road	Gravel	Bore	YES	S3-CA-241.91	Santa Fe	Private
240.78	King Farm Road (CR-21)	Gravel	Bore	YES	S3-CA-240.78	Santa Fe	State
239.57	Valley Irrigation Road (CR-23)	Gravel	Open Cut	YES	S3-CA-239.57	Torrance	Private
239.03	Field Road*	Dirt	Open Cut	YES	S3-CA-239.03	Torrance	Private
238.54	Field Road	Dirt	Open Cut	YES	S3-CA-238.54	Torrance	Private
238.41	SR-41	Paved	Bore	YES	S3-CA-238.41	Torrance	Private
236.16	Pinto Road	Gravel	N/A	YES	S3-CA-236.16	Torrance	Private
236.07	Frontage Road	Paved	HDD	NO		Torrance	Private
236.04	Central Avenue (RT-66)	Paved	HDD	NO		Torrance	Private
235.95	I-40 West	Paved	HDD	NO		Torrance	Private

MP	Name	Surface	Crossing Method	Ingress	Construction Access Name	County	Land Ownership
235.93	I-40 East	Paved	HDD	NO		Torrance	Private
235.92	Central Avenue (RT-66)	Paved	HDD	NO		Torrance	Private
234.95	East Martinez Road	Paved	Bore	YES	S3-CA-234.95	Torrance	Private
232.88	CR-A112	Dirt	Open Cut	NO		Torrance	State
232.62	Stagecoach Road (CR-A-160)	Gravel	Bore	YES	S3-CA-232.62	Torrance	Private
229.26	Unknown Road	Dirt	Open Cut	NO		Torrance	Private
226.81	Unknown Road	Dirt	Open Cut	NO		Torrance	Private
225.49	Unknown Road	Dirt	Open Cut	NO		Torrance	Private
223.51	CR-A-80	Dirt	Open Cut	YES	S3-CA-223.51	Torrance	State
187.16	CR-C-71	Gravel	Bore	YES	S4-CA-187.16	Torrance	Private
186.98	Unknown Road	Dirt	Open Cut	NO		Torrance	Private
186.17	Unknown Road	Dirt	Open Cut	NO		Torrance	Private
184.20	US-54	Paved	Bore	NO		Torrance	Private
184.05	Unknown Road	Dirt	Open Cut	YES	S4-CA-184.05	Torrance	Private
183.87	Unknown Road	Dirt	Open Cut	NO		Torrance	Private
182.84	Unknown Road	Dirt	Open Cut	NO		Torrance	Private
181.98	Unknown Road	Dirt	Open Cut	NO		Torrance	Private
181.92	Unknown Road	Dirt	Open Cut	NO		Torrance	Private
180.71	Unknown Road	Dirt	Open Cut	NO		Guadalupe	Private
174.99	Access Road - Duran Meter Station*	Dirt	N/A	YES	S5-CA-174.99	Guadalupe	BLM RFO
171.82	Unknown Road	Dirt	Open Cut	NO		Guadalupe	BLM RFO
171.00	Unknown Road	Dirt	Open Cut	YES	S5-CA-171.00	Guadalupe	BLM RFO
168.17	Jackalope Road (CR-3KA)	Gravel	Open Cut	YES	S5-CA-168.17	Guadalupe	BLM RFO
165.30	Unknown Road	Dirt	Open Cut	YES	S5-CA-165.30	Lincoln	State
164.76	Unknown Road	Dirt	Open Cut	YES	S5-CA-164.76	Lincoln	State
163.03	CR-3L	Gravel/Dirt	Open Cut	YES	S5-CA-163.03	Lincoln	State

MP	Name	Surface	Crossing Method	Ingress	Construction Access Name	County	Land Ownership
157.72	Fo34	Dirt	Open Cut	YES	S5-CA-157.72	Lincoln	Private
156.10	Unknown Road	Dirt	Open Cut	NO		Lincoln	Private
155.77	Unknown Road	Dirt	Open Cut	NO		Lincoln	Private
153.33	Red Cliff Road (B048)	Gravel	Bore	YES	S5-CA-153.33	Lincoln	Private
152.84	Unknown Road	Dirt	Open Cut	NO		Lincoln	Private
150.88	Unknown Road*	Dirt	Open Cut	YES	S5-CA-150.88	Lincoln	Private
149.70	US-285	Paved	Bore	NO		De Baca	Private
149.67	Unknown Road	Dirt	Open Cut	YES	S5-CA-149.67	De Baca	Private
149.12	Unknown Road*	Dirt	Open Cut	YES	S5-CA-149.12	De Baca	Private
146.87	CR-1-51	Gravel	Open Cut	YES	S5-CA-146.87	De Baca	Private
146.04	Unknown Road	Dirt	Open Cut	NO		De Baca	Private
144.74	Yeso Creek Road (CR-1-42)	Gravel	Open Cut	YES	S5-CA-144.74	De Baca	Private
107.91	Unknown Road	Dirt	Open Cut	NO		Chaves	Private
106.25	Unknown Road	Dirt	Open Cut	YES	S6-CA-106.25	Chaves	Private
105.96	Unknown Road*	Dirt	Open Cut	YES	S6-CA-105.96	Chaves	BLM RFO
104.55	Unknown Road	Dirt	Open Cut	NO		Chaves	Private
102.95	Unknown Road*	Gravel/Dirt	Open Cut	YES	S6-CA-102.95	Chaves	Private
102.69	Cloudcraft Road (CR-1)	Gravel/Dirt	Open Cut	YES	S6-CA-102.69	Chaves	BLM RFO
101.80	Unknown Road	Dirt	Open Cut	NO		Chaves	State
101.77	Aztec Road (CR-1) *	Gravel/Dirt	Open Cut	YES	S6-CA-101.77	Chaves	State
101.32	Unknown Road	Dirt	Open Cut	NO		Chaves	Private
100.22	Unknown Road	Gravel/Dirt	Open Cut	YES	S6-CA-100.22	Chaves	BLM RFO
99.48	Unknown Road	Gravel/Dirt	Open Cut	YES	S6-CA-99.48	Chaves	Private
97.73	Unknown Road	Dirt	Open Cut	NO		Chaves	Private
97.28	Unknown Road	Dirt	Open Cut	YES	S6-CA-97.28	Chaves	Private
93.23	Olive Road (CR-C2)	Gravel	Bore	YES	S6-CA-93.23	Chaves	Private
92.96	US-70	Paved	Bore	NO		Chaves	Private

MP	Name	Surface	Crossing Method	Ingress	Construction Access Name	County	Land Ownership
92.67	Unknown Road*	Dirt	Open Cut	YES	S6-CA-92.67	Chaves	Private
91.55	Santa Fe RR	RR	Bore	NO		Chaves	Private
87.99	Unknown Road*	Dirt	Open Cut	YES	S6-CA-87.99	Chaves	Private
86.30	White Lake Ranch Road (CR-50)	Gravel/Dirt	Open Cut	YES	S6-CA-86.30	Chaves	Private
85.85	White Lake Ranch Road (CR-49)	Gravel/Dirt	Open Cut	YES	S6-CA-85.85	Chaves	Private
85.00	Unknown Road	Gravel/Dirt	Open Cut	YES	S6-CA-85.00	Chaves	State
84.34	Unknown Road	Gravel/Dirt	Open Cut	YES	S6-CA-84.34	Chaves	State
84.17	Unknown Road	Gravel/Dirt	Open Cut	YES	S6-CA-84.17	Chaves	State
83.65	Unknown Road	Gravel/Dirt	Open Cut	YES	S6-CA-83.65	Chaves	Private
83.03	Unknown Road	Gravel/Dirt	Open Cut	YES	S6-CA-83.03	Chaves	Private
82.99	Unknown Road	Gravel/Dirt	Open Cut	YES	S6-CA-82.99	Chaves	Private
82.57	Unknown Road	Gravel/Dirt	Open Cut	YES	S6-CA-82.57	Chaves	Private
80.57	Access Road - White Lake Meter Station	Gravel/Dirt	N/A	YES	S6-CA-80.57	Chaves	State
80.39	Unknown Road	Dirt	Open Cut	NO		Chaves	State
80.11	Unknown Road	Dirt	Open Cut	NO		Chaves	State
78.44	Unknown Road	Dirt	Open Cut	NO		Chaves	Private
78.14	Unknown Road	Dirt	Open Cut	NO		Chaves	Private
76.67	Unknown Road	Dirt	Open Cut	NO		Chaves	BLM RFO
76.64	Unknown Road	Dirt	Open Cut	NO		Chaves	BLM RFO
76.48	Unknown Road	Gravel/Dirt	Open Cut	YES	S6-CA-76.48	Chaves	BLM RFO
76.16	Unknown Road	Gravel/Dirt	Open Cut	YES	S6-CA-76.16	Chaves	BLM RFO
75.62	Unknown Road	Gravel/Dirt	Open Cut	YES	S6-CA-75.62	Chaves	BLM RFO
75.30	Unknown Road	Dirt	Open Cut	NO		Chaves	BLM RFO
73.06	Cato Road	Gravel/Dirt	Open Cut	YES	S6-CA-73.06	Chaves	BLM RFO
69.75	Field Road	Dirt	Open Cut	NO		Chaves	BLM RFO
46.89	Frier Road (CR-152)	Gravel	Open Cut	YES	S7-CA-46.89	Lea	Private

MP	Name	Surface	Crossing Method	Ingress	Construction Access Name	County	Land Ownership
43.92	Field Road	Gravel	Open Cut	YES	S7-CA-43.92	Lea	Private
43.18	Sartin Road (CR-149)	Gravel	Bore	YES	S7-CA-43.18	Lea	Private
42.47	Sanders Road	Gravel	Open Cut	YES	S7-CA-42.47	Lea	Private
40.98	CR-147	Gravel	Bore	YES	S7-CA-40.98	Lea	Private
39.14	CR-147	Paved	Bore	YES	S7-CA-39.14	Lea	Private
36.34	Field Road	Dirt	Open Cut	YES	S7-CA-36.34	Lea	State
36.01	Field Road	Dirt	Open Cut	NO		Lea	Private
33.71	Kidd Road (CR-109)	Gravel	Open Cut	YES	S7-CA-33.71	Lea	Private
33.55	Hillburn Road (CR-108)	Paved	Bore	YES	S7-CA-33.55	Lea	State
31.93	Hester Road (CR-107)	Gravel	Bore	YES	S7-CA-31.93	Lea	Private
31.10	Reed Road (CR-103)	Paved	Bore	YES	S7-CA-31.10	Lea	Private
30.33	Dickens Road (CR-106)	Gravel	Bore	YES	S7-CA-30.33	Lea	Private
29.84	Six Shooter Road (CR-110)	Paved	Bore	YES	S7-CA-29.84	Lea	Private
28.74	CR-206	Paved	Bore	YES	S7-CA-28.74	Lea	Private
28.64	Field Road	Gravel	Open Cut	YES	S7-CA-28.64	Lea	Private
28.26	E Crockett Road (CR-114)	Paved	Bore	YES	S7-CA-28.26	Lea	Private
27.76	Oil Field Road	Gravel	Open Cut	YES	S7-CA-27.76	Lea	Private
26.05	E. Leman Road (CR-113)	Gravel	Open Cut	YES	S7-CA-26.05	Lea	Private
25.55	Unknown Road	Gravel	Open Cut	YES	S7-CA-25.55	Lea	Private
24.64	US-82	Paved	Bore	YES	S7-CA-24.64	Lea	Private
23.17	Ownes Road (CR-115)	Gravel	Bore	YES	S7-CA-23.17	Lea	Private
22.54	Field Road	Dirt	Open Cut	NO		Lea	Private
22.16	Field Road	Dirt	Open Cut	NO		Lea	Private
21.79	Field Road	Dirt	Open Cut	NO		Lea	State
21.09	Field Road	Dirt	Open Cut	NO		Lea	Private
20.95	Field Road (CR-87)	Gravel	Open Cut	NO		Lea	Private
20.31	Marlee Road (CR-87)	Paved	Bore	YES	S7-CA-20.31	Lea	Private

MP	Name	Surface	Crossing Method	Ingress	Construction Access Name	County	Land Ownership
19.65	Field Road	Dirt	Open Cut	NO		Lea	Private
19.46	Field Road	Dirt	Open Cut	NO		Lea	Private
18.97	Praireview Road (CR-89)	Paved	Bore	YES	S7-CA-18.97	Lea	Private
18.67	SR-83	Paved	Bore	YES	S7-CA-18.67	Lea	State
14.85	Knowles Road	Gravel	Open Cut	YES	S7-CA-14.85	Lea	Private
14.35	Thornhill Road (SR-133)	Paved	Bore	YES	S7-CA-14.35	Lea	Private
* Existing access roads requiring improvements (see Table C-3).							

Table C-3
Existing Access Roads Requiring Improvements

Name	Length (feet)	Width [1] (feet)	Disturbance (acres)	Construction Access Name	Landownership	Improvement Notes
Segment 1						
CA #43	311	25	0.18	S1-CA-413.46	BLM FFO	Portion of access road
CA #19	100	25	0.06	S1-CA-396.05	BIA/Tribal	Portion of access road
CA #14A	2,233	25	1.28	S1-CA-382.21	BLM FFO	All of access road
CA #9	75	25	0.04	S1-CA-374.52	BIA/Tribal	All of access road
Segment 2						
CA #34	2,918	25	1.67	S2-CA-350.19	BLM FFO	Portion of access road
CA #21	1,416	25	0.81	S2-CA-328.70	BLM RPFO	Portion of access road
CA #16	1,008	25	0.58	S2-CA-322.46	BLM RPFO	Portion of access road
CA #14A			0.00	S2-CA-319.30	BLM RPFO	1 waterbody crossing only [2]
CA #11			0.00	S2-CA-309.22	BIA/Tribal	3 waterbody crossings only [2]
CA #10	500	25	0.29	S2-CA-308.06	BIA/Tribal	Portion of access road
CA #9	290	25	0.17	S2-CA-306.48	BLM/Tribal	Portion of access road
CA #8	400	25	0.23	Associated with S2-CA-306.28	Private BLM/Tribal	3 waterbody crossings only [2]
CA #8B	1,907	25	1.09	S2-CA-305.39	Private	All of access road
CA #8A	1,873	25	1.07	S2-CA-305.04	BLM RPFO	All of access road
Segment 3						
CA #8	567	25	0.32	S3-CA-266.71	Private	All of access road
CA #6	5,355	25	3.07	S3-CA-257.84	Private	All of access road
CA #2	2,642	25	1.52	S3-CA-246.48	Private	All of access road
CA #1A	1,337	25	0.77	S3-CA-239.03	Private	Portion of access road
Segment 5						
CA #8	991	25	0.57	S5-CA-174.99	BLM RFO	Portion of access road
CA #4	5,280	25	3.03	S5-CA-150.88	Private	All of access road
CA #2	1,334	25	0.77	S5-CA-149.12	Private	All of access road
Segment 6						
CA #19A	467	25	0.27	S6-CA-105.96	BLM RFO	Portion of access road
CA #18	947	25	0.54	S6-CA-102.95	Private	Portion of access road
CA #17	2,279	25	1.31	S6-CA-101.77	State	All of access road
CA #13	1,450	25	0.83	S6-CA-92.67	Private	All of access road
CA #12	5,820	25	3.34	S6-CA-87.99	Private	All of access road
		Total	**23.81**			

[1] Width is approximate and based on the worst case scenario. Typically, roads would be bladed to a width between 8 and 12 feet.
[2] Waterbody crossing may require a temporary passing structure (i.e., timber mats, rail car, or flume pipe or combination depending on site-specific requirements) to allow construction equipment to cross the feature.

Table C-4
Waterbodies Proposed to Be Crossed by WEP III

Waterbody Label	Waterbody Name	Flow[1]	Cowardin Classification[2]	Surface Ownership	County	Milepost	Proposed Crossing Technique
Segment 1							
1_2011_084	Unnamed Drainage	Ephemeral	R4SB	BLM FFO	San Juan	414.93	Open Cut
1_2011_085	Unnamed Drainage	Ephemeral	R4SB	BLM FFO	San Juan	414.84	Open Cut
1_2011_086	Unnamed Drainage	Ephemeral	R4SB	BLM FFO	San Juan	414.35	Open Cut
1_2011_95	Unnamed Drainage	Ephemeral	R4SB	BLM FFO	San Juan	413.97	Open Cut
1_2011_088	Unnamed Drainage	Ephemeral	R4SB	BLM FFO	San Juan	413.76	Open Cut
1_2011_089	Unnamed Drainage	Ephemeral	R4SB	BLM FFO	San Juan	413.56	Open Cut
1_2012_11	Unnamed Drainage	Ephemeral	R4SB	BLM FFO	San Juan	413.34	HDD
1_2012_22	Cutter Irrigation Canal	Perennial	Other	BLM FFO	San Juan	412.02	HDD
1_2011_081	Unnamed Drainage	Ephemeral	R4SB	BLM FFO	San Juan	411.45	Open Cut
1_2011_082	Unnamed Drainage	Ephemeral	R4SB	BLM FFO	San Juan	410.83	Open Cut
1_2011_083	Unnamed Drainage	Ephemeral	R4SB	BLM FFO	San Juan	410.45	Open Cut
1_2011_072	Unnamed Drainage	Ephemeral	R4SB	Private	San Juan	403.24	Open Cut
1_2011_080	Unnamed Drainage	Ephemeral	R4SB	Tribal	San Juan	396.60	Open Cut
1_2011_079	Unnamed Drainage	Ephemeral	R4SB	Tribal	San Juan	396.55	Open Cut
1_2011_078	Unnamed Drainage	Ephemeral	R4SB	Tribal	San Juan	396.42	Open Cut
1_2011_077	Unnamed Drainage	Ephemeral	R4SB	Tribal	San Juan	396.09	Open Cut
1_2011_076	Unnamed Drainage	Ephemeral	R4SB	Tribal	San Juan	395.96	Open Cut
1_2011_075	Unnamed Drainage	Ephemeral	R4SB	Tribal	San Juan	395.83	Open Cut
1_2011_074	Unnamed Drainage	Ephemeral	R4SB	BLM FFO	San Juan	395.42	Open Cut
1_2011_073	Unnamed Drainage	Ephemeral	R4SB	Private	San Juan	394.48	Open Cut
1_2011_071	Unnamed Drainage	Ephemeral	R4SB	BLM FFO	San Juan	388.76	Open Cut
1_2011_070	Unnamed Drainage	Ephemeral	R4SB	BLM FFO	San Juan	388.71	Open Cut
1_2011_067	Unnamed Drainage	Ephemeral	R4SB	BLM FFO	San Juan	388.19	Open Cut

Waterbody Label	Waterbody Name	Flow[1]	Cowardin Classification[2]	Surface Ownership	County	Milepost	Proposed Crossing Technique
1_2011_066	Unnamed Drainage	Ephemeral	R4SB	BLM FFO	San Juan	387.44	Open Cut
1_2011_065	Unnamed Drainage	Ephemeral	R4SB	BLM FFO	San Juan	387.39	Open Cut
1_2011_064	Unnamed Drainage	Ephemeral	R4SB	BLM FFO	San Juan	387.24	Open Cut
1_2011_069	Unnamed Drainage	Ephemeral	R4SB	Tribal	San Juan	384.41	Open Cut
1_2011_063	Unnamed Drainage	Ephemeral	R4SB	BLM FFO	San Juan	378.74	Open Cut
1_2011_062	Unnamed Drainage	Ephemeral	R4SB	BLM FFO	San Juan	378.63	Open Cut
1_2011_061	Unnamed Drainage	Ephemeral	R4SB	BLM FFO	San Juan	378.20	Open Cut
1_2011_060	Unnamed Drainage	Ephemeral	R4SB	BLM FFO	San Juan	378.03	Open Cut
1_2011_059	Unnamed Drainage	Ephemeral	R4SB	BLM FFO	San Juan	377.99	Open Cut
1_2011_058	Unnamed Drainage	Ephemeral	R4SB	Tribal	San Juan	377.72	Open Cut
1_2011_057	Unnamed Drainage	Ephemeral	R4SB	Tribal	San Juan	377.35	Open Cut
1_2011_056	Unnamed Drainage	Ephemeral	R4SB	Tribal	San Juan	376.98	Open Cut
1_2012_124	Unnamed Drainage	Ephemeral	R4SB	Tribal	San Juan	376.77	Open Cut
1_2011_040	Blanco Wash	Ephemeral	R4SB	Tribal	San Juan	375.73	Open Cut
1_2011_039	Blanco Wash	Ephemeral	R4SB	Tribal	San Juan	375.70	Open Cut
1_2011_038	Blanco Wash	Ephemeral	R4SB	Private	Rio Arriba	375.04	Open Cut
1_2011_055	Blanco Wash	Ephemeral	R4SB	Tribal	Rio Arriba	374.57	Open Cut
1_2011_054	Blanco Wash	Ephemeral	R4SB	Tribal	Rio Arriba	374.39	Open Cut
1_2011_053	Blanco Wash	Ephemeral	R4SB	BLM FFO	Rio Arriba	374.29	Open Cut
1_2011_052	Blanco Wash	Ephemeral	R4SB	Tribal	Rio Arriba	374.10	Open Cut
1_2011_050	Blanco Wash	Ephemeral	R4SB	Tribal	Rio Arriba	373.88	Open Cut
1_2011_049	Blanco Wash	Ephemeral	R4SB	Tribal	Rio Arriba	373.86	Open Cut
1_2011_048	Unnamed Drainage	Ephemeral	R4SB	Tribal	Rio Arriba	373.71	Open Cut
1_2011_047	Blanco Wash	Ephemeral	R4SB	Tribal	Rio Arriba	373.37	Open Cut
1_2011_046	Blanco Wash	Ephemeral	R4SB	Tribal	Rio Arriba	373.28	Open Cut

Waterbody Label	Waterbody Name	Flow[1]	Cowardin Classification[2]	Surface Ownership	County	Milepost	Proposed Crossing Technique
1_2011_045	Blanco Wash	Ephemeral	R4SB	BLM FFO	Rio Arriba	372.83	Open Cut
Segment 2							
2_2011_010	Encino Wash	Ephemeral	R4SB	Tribal	McKinley	349.87	Open Cut
2_2011_011	Unnamed Drainage	Ephemeral	R4SB	Tribal	McKinley	349.53	Open Cut
2_2011_012	Encino Wash	Ephemeral	R4SB	Tribal	McKinley	349.46	Open Cut
2_2011_013	Unnamed Drainage	Ephemeral	R4SB	Tribal	McKinley	349.13	Open Cut
2_2011_008	Encino Wash	Ephemeral	R4SB	Tribal	McKinley	348.87	Open Cut
2_2011_009	Encino Wash	Ephemeral	R4SB	Tribal	McKinley	348.44	Open Cut
2_2011_017	Unnamed Drainage	Ephemeral	R4SB	Tribal	McKinley	344.04	Open Cut
2_2011_018	Penistaja Arroyo	Ephemeral	R4SB	BLM RPFO	Sandoval	343.57	Open Cut
2_2012_97	Unnamed Drainage	Ephemeral	R4SB	BLM RPFO	Sandoval	343.17	Open Cut
2_2011_019	Unnamed Drainage	Ephemeral	R4SB	BLM RPFO	Sandoval	343.16	Open Cut
2_2011_020	Unnamed Drainage	Ephemeral	R4SB	BLM RPFO	Sandoval	342.93	Open Cut
2_2012_98	Unnamed Drainage	Ephemeral	R4SB	Tribal	Sandoval	342.64	Open Cut
2_2011_037	Unnamed Drainage	Ephemeral	R4SB	BLM RPFO	Sandoval	341.94	Open Cut
2_2011_028	Unnamed Drainage	Ephemeral	R4SB	BLM RPFO	Sandoval	337.93	Open Cut
2_2011_033	Unnamed Drainage	Ephemeral	R4SB	BLM RPFO	Sandoval	336.29	Open Cut
2_2011_034	Unnamed Drainage	Ephemeral	R4SB	BLM RPFO	Sandoval	335.22	Open Cut
2_2011_024	Unnamed Drainage	Ephemeral	R4SB	BLM RPFO	Sandoval	334.61	Open Cut
2_2011_023	Unnamed Drainage	Ephemeral	R4SB	Tribal	Sandoval	332.79	Open Cut
2_2012_99	Piedra Lumbre, Arroyo	Ephemeral	R4SB	Private	Sandoval	327.62	Open Cut
2_2011_035	Unnamed Drainage	Ephemeral	R4SB	BLM RPFO	Sandoval	327.41	Open Cut
2_2011_036	Unnamed Drainage	Ephemeral	R4SB	BLM RPFO	Sandoval	325.47	Open Cut
2_2011_026	Unnamed Drainage	Ephemeral	R4SB	BLM RPFO	Sandoval	325.07	Open Cut
2_2011_027	Unnamed Drainage	Ephemeral	R4SB	BLM RPFO	Sandoval	322.68	Open Cut

Waterbody Label	Waterbody Name	Flow[1]	Cowardin Classification[2]	Surface Ownership	County	Milepost	Proposed Crossing Technique
2_2012_001	Rio Puerco	Ephemeral	R4SB	BLM RPFO	Sandoval	320.27	HDD
2_2011_002	Unnamed Drainage	Ephemeral	R4SB	BLM RPFO	Sandoval	316.46	Open Cut
2_2011_003	Unnamed Drainage	Ephemeral	R4SB	BLM RPFO	Sandoval	316.28	Open Cut
2_2011_004	Unnamed Drainage	Ephemeral	R4SB	BLM RPFO	Sandoval	313.87	Open Cut
2_2012_101	Unnamed Drainage	Ephemeral	R4SB	BLM RPFO	Sandoval	313.70	Open Cut
2_2011_005	Unnamed Drainage	Ephemeral	R4SB	BLM RPFO	Sandoval	313.67	Open Cut
2_2011_006	Unnamed Drainage	Ephemeral	R4SB	Tribal	Sandoval	313.09	Open Cut
2_2011_007	Unnamed Drainage	Ephemeral	R4SB	Tribal	Sandoval	313.04	Open Cut
2_2012_110	Ojito, Arroyo	Intermittent	R4SB	Tribal	Sandoval	312.52	Open Cut
2_2012_109	Ojito, Arroyo	Intermittent	R4SB	Tribal	Sandoval	312.20	Open Cut
2_2012_108	Ojito, Arroyo	Intermittent	R4SB	Tribal	Sandoval	311.84	Open Cut
2_2012_107	Ojito, Arroyo	Intermittent	R4SB	Tribal	Sandoval	311.50	Open Cut
2_2012_106	Unnamed Drainage	Intermittent	R4SB	Tribal	Sandoval	311.38	Open Cut
2_2012_105	Ojito, Arroyo	Intermittent	R4SB	Tribal	Sandoval	311.12	Open Cut
2_2012_104	Unnamed Drainage	Intermittent	R4SB	Tribal	Sandoval	310.22	Open Cut
2_2012_3	Salado, Rio	Intermittent	R4SB	Tribal	Sandoval	309.00	Road Crossing
2_2012_4	Cuchilla Arroyo	Ephemeral	R4SB	Tribal	Sandoval	309.00	Road Crossing
2_2012_5	Cuchilla Arroyo	Ephemeral	R4SB	Tribal	Sandoval	309.00	Road Crossing
2_2012_6	Cuchilla Arroyo	Ephemeral	R4SB	Tribal	Sandoval	309.00	Road Crossing
2_2012_7	Cuchilla Arroyo	Ephemeral	R4SB	Tribal	Sandoval	309.00	Road Crossing
2_2012_8	Salado, Rio	Intermittent	R4SB	Tribal	Sandoval	309.00	Road Crossing
2_2012_9	Cucho, Arroyo	Intermittent	R4SB	Tribal	Sandoval	308.13	Open Cut; Road Crossing
2_2012_123	Cucho, Arroyo	Ephemeral	R4SB	Tribal	Sandoval	307.96	Open Cut
2_2012_102	Querencia Arroyo	Intermittent	R4SB	Private	Sandoval	306.17	Open Cut
2_2012_113	Milpas, Canada de la	Intermittent	R4SB	Private	Sandoval	305.96	Open Cut

Waterbody Label	Waterbody Name	Flow[1]	Cowardin Classification[2]	Surface Ownership	County	Milepost	Proposed Crossing Technique
2_2012_112	Unnamed Drainage	Intermittent	R4SB	Private	Sandoval	305.52	Open Cut
2_2012_111	Unnamed Drainage	Intermittent	R4SB	BLM RPFO	Sandoval	305.11	Open Cut
2_2012_114	Unnamed Drainage	Intermittent	R4SB	State	Sandoval	304.18	Open Cut
2_2012_14	Piedra Parada, Arroyo	Ephemeral	R4SB	Tribal	Sandoval	299.60	Open Cut
Segment 3							
3_2012_115	Unnamed Drainage	Ephemeral	R4SB	Private	Sandoval	269.79	Open Cut
3_2012_116	Unnamed Drainage	Ephemeral	R4SB	Private	Sandoval	269.42	Open Cut
3_2012_117	Unnamed Drainage	Ephemeral	R4SB	Private	Sandoval	269.09	Open Cut
3_2012_121	Unnamed Drainage	Ephemeral	R4SB	Private	Sandoval	268.82	Open Cut
3_2012_122	Unnamed Drainage	Ephemeral	R4SB	Private	Sandoval	268.72	Open Cut
3_2012_119	Unnamed Drainage	Ephemeral	R4SB	Private	Sandoval	267.82	Open Cut
3_2012_118	Unnamed Drainage	Ephemeral	R4SB	Private	Sandoval	267.58	Open Cut
3_2012Add_7	Unnamed Drainage	Ephemeral	R4SB	Private	Sandoval	266.85	Open Cut
3_2012Add_6	Unnamed Drainage	Ephemeral	R4SB	Private	Sandoval	266.55	Open Cut
3_2012Add_22	San Pedro Creek	Ephemeral	R4SB	Private	Sandoval	266.51	Open Cut
3_2012Add_5	Unnamed Drainage	Ephemeral	R4SB	BLM	Sandoval	264.58	Open Cut
3_2012Add_4	Unnamed Drainage	Ephemeral	R4SB	BLM	Sandoval	264.45	Open Cut
3_2012Add_1	Unnamed Drainage	Ephemeral	R4SB	Private	Sandoval	261.77	Open Cut
3_2012_16	Unnamed Drainage	Ephemeral	R4SB	Private	Sandoval	261.74	Open Cut
3_2012Add_2	Unnamed Drainage	Ephemeral	R4SB	Private	Sandoval	261.74	Open Cut
3_2012_17	Unnamed Drainage	Ephemeral	R4SB	Private	Sandoval	261.67	Open Cut
3_2012Add_11	Unnamed Drainage	Ephemeral	R4SB	Private	Sandoval	261.65	Open Cut
3_2012Add_9	Unnamed Drainage	Ephemeral	R4SB	Private	Sandoval	261.40	Open Cut
3_2012Add_12	Unnamed Drainage	Ephemeral	R4SB	Private	Sandoval	260.89	Open Cut
3_2012Add_13	Unnamed Drainage	Ephemeral	R4SB	Private	Bernalillo	260.33	Open Cut

Waterbody Label	Waterbody Name	Flow[1]	Cowardin Classification[2]	Surface Ownership	County	Milepost	Proposed Crossing Technique
3_2012Add_14	Unnamed Drainage	Ephemeral	R4SB	Private	Bernalillo	260.19	Open Cut
3_2012Add_15	Unnamed Drainage	Ephemeral	R4SB	Private	Bernalillo	259.42	Open Cut
3_2012Add_16	Unnamed Drainage	Ephemeral	R4SB	Private	Bernalillo	259.34	Open Cut
3_2012Add_17	Unnamed Drainage	Ephemeral	R4SB	Private	Bernalillo	259.19	Open Cut
3_2012Add_18	Unnamed Drainage	Ephemeral	R4SB	Private	Bernalillo	259.19	Open Cut
3_2012Add_19	Unnamed Drainage	Ephemeral	R4SB	Private	Bernalillo	258.81	Open Cut
3_2012Add_20	Unnamed Drainage	Ephemeral	R4SB	Private	Bernalillo	257.79	Open Cut
3_2012Add_21	Unnamed Drainage	Ephemeral	R4SB	Private	Santa Fe	257.12	Open Cut
Segment 6							
6_2012_19	Pecos River	Perennial	Other	BLM RFO	Chaves	105.62	HDD
6_2011_004	Unnamed Drainage	Ephemeral	R4SB	BLM RFO	Chaves	104.99	Open Cut
6_2011_096	Unnamed Drainage	Ephemeral	R4SB	Private	Chaves	103.87	Open Cut
6_2011_002	Sand Creek	Ephemeral	R4SB	BLM RFO	Chaves	100.34	Open Cut
6_2011_090	Unnamed Drainage	Ephemeral	R4SB	Private	Chaves	99.14	Open Cut
6_2011_091	Unnamed Drainage	Ephemeral	R4SB	BLM RFO	Chaves	98.79	Open Cut
6_2011_092	Unnamed Drainage	Ephemeral	R4SB	BLM RFO	Chaves	98.61	Open Cut
6_2011_093	Unnamed Drainage	Ephemeral	R4SB	BLM RFO	Chaves	98.57	Open Cut
6_2011_094	Unnamed Drainage	Ephemeral	R4SB	BLM RFO	Chaves	98.52	Open Cut
6_2011_095	Unnamed Drainage	Ephemeral	R4SB	BLM RFO	Chaves	98.42	Open Cut
6_2011_102	Unnamed Drainage	Ephemeral	R4SB	BLM RFO	Chaves	98.42	Open Cut
6_2012_5	Unnamed Drainage	Ephemeral	R4SB	BLM RFO	Chaves	75.88	Open Cut

Notes:
[1] Flow is defined by the USACE standard available at: http://www.swl.usace.army.mil/regulatory/definitions.html.
[2] Cowardin et al. 1979.

Table C-5
Groundwater Wells within 500 Feet of WEP III [1, 2]

Water Right File Number	Subbasin	Use	Diversion	Owner	County	Source	q64	q16	q4	Sec	Tws	Rng
SJ 01507		Community Type Use	33.4	Lybrook Water Users	Rio Arriba	Ground Water Shallow	3	3	4	10	23N	07W
SJ 02233		Industrial	21.48	Ottie Andress	Rio Arriba	Ground Water	1	1	2	15	23N	07W
SJ 00960		Irrigation	213	O.L. Or Val Chapman	San Juan	Ground Water Shallow	3	3	3	36	24N	08W
SJ 01507		Community Type Use	33.4	Lybrook Water Users	Rio Arriba	Ground Water Shallow	3	3	4	10	23N	07W
SJ 02233		Industrial	21.48	Ottie Andress	Rio Arriba	Ground Water	1	1	2	15	23N	07W
RG 80267	Middle Rio Grande	Sanitary in conjuction with a commercial use	3	Steer Contracting Service LLC	Sandoval	Ground Water Artesian	1	1	2	13	15N	01E
RG 91319 1	Jemez	Domestic and Livestock	0	David E Lucero	Sandoval	Ground Water	3	1	1	16	15N	01E
RG 88319	Middle Rio Grande	Domestic	1	Phyllis Carpenter	Sandoval	Ground Water Shallow	4	3	3	09	12N	06E
E 00545		Domestic	2.5	Fred L Johnston	Torrance	Ground Water Shallow				17	09N	09E
E 01189		Irrigation	12.4	R.B. Clark	Torrance	Ground Water Shallow	3	1	1	17	09N	09E
E 01196		Domestic	3	L E Rodgers	Santa Fe	Ground Water Shallow				17	09N	09E
E 01252		Domestic	3	William F Guenley	Torrance	Ground Water Shallow				17	09N	09E
E 01262		Domestic	3	Robert Lott	Torrance	Ground Water Shallow				17	09N	09E
E 01302		Domestic	3	Robert Mora	Torrance	Ground Water Shallow				17	09N	09E
E 01303		Domestic	3	D W Falls	Torrance	Ground Water Shallow				17	09N	09E
E 01899		Domestic	3	Joseph J Montecki	Torrance	Ground Water Shallow				17	09N	09E
E 01974		Domestic	3	Tommy Thompson	Torrance	Ground Water Shallow				17	09N	09E
E 02790		Domestic	3	William R Stevens	Torrance	Ground Water Shallow	3	4	1	17	09N	09E
E 03241		Domestic	3	William M. Dunn	Torrance	Ground Water Shallow				17	09N	09E
E 04325		Domestic	3	Rosemary Armijo	Torrance	Ground Water Shallow				17	09N	09E

Water Right File Number	Subbasin	Use	Diversion	Owner	County	Source	q64	q16	q4	Sec	Tws	Rng
E 04767		Domestic	3	Adelaido Herrera	Torrance	Ground Water Shallow				17	09N	09E
E 05360		Domestic	3	Pauline H Dube	Torrance	Ground Water Shallow	3	1	1	17	09N	09E
E 05756		Domestic	3	Joseph A Dow	Torrance	Ground Water Shallow	2	4	3	17	09N	09E
E 06110		Domestic	3	Charles Sheilds	Torrance	Ground Water Shallow	3	3	2	17	09N	09E
E 06475		Domestic	3	Sammy Carillo	Torrance	Ground Water Shallow	3	3	1	27	09N	09E
E 08302		Domestic	3	Bill Ward	Torrance	Ground Water Shallow	1	3	1	17	09N	09E
E 08556		Domestic	3	Earl Stephens	Torrance	Ground Water Shallow				17	09N	09E
E 09847		Domestic	0.5	Twyla Mccomb Cole	Torrance	Ground Water	3	1	1	17	09N	09E
RG 40172	Nambe Pojoaque-Tesuque	Domestic	3	Pete Coneway	Santa Fe	Ground Water Shallow	3	1	4	17	08N	10E
RG 88319	Middle Rio Grande	Domestic	1	Phyllis Carpenter	Sandoval	Ground Water Shallow	4	3	3	09	12N	06E
E 00761		Irrigation	445.8	Highland Stock Farm, LLC.	Santa Fe	Ground Water Shallow	4	4	4	32	11N	07E
E 03194		Exploration	0	T.C. Horton	Santa Fe	Ground Water	3	3	1	29	11N	07E
E 04989		Exploration	0	T C Horton	Torrance	Ground Water Shallow	1	3	1	20	11N	07E
E 07282		Exploration	0	T.C. Horton Family	Santa Fe	Ground Water	3	3	2	32	11N	07E
E 08926		Domestic	0.5	Jane Johnson	Santa Fe	Ground Water	4	3	3	33	11N	07E
E 02294		Exploration	0	Roy Horton	Santa Fe	Ground Water		2	2	03	10N	07E
E 02612		Non 72-12-1 Domestic	3	Roy C Horton	Bernalillo	Ground Water	2	2	2	03	10N	07E
E 03041		Domestic	3	James Cleveland	Santa Fe	Ground Water Shallow	1	2	2	04	10N	07E
E 03801		Domestic	3	Etchison G Lill	Santa Fe	Ground Water Shallow	2	1	1	01	10N	07E
E 08523		Livestock watering	0	Pine Canyon Ranch	Santa Fe	Ground Water	1	1	2	01	10N	07E

Water Right File Number	Subbasin	Use	Diversion	Owner	County	Source	q64	q16	q4	Sec	Tws	Rng
E 09263		Domestic	0.5	Thomas Wade	Santa Fe	Ground Water Shallow	2	2	2	04	10N	07E
E 09264		Domestic and Livestock	3	Thomas Wade	Santa Fe	Ground Water Shallow	2	2	2	04	10N	07E
E 00308		Irrigation	1385	Equitable Life Assurance Society Of The U.S.	Santa Fe	Ground Water Shallow	3	3	3	26	10N	08E
E 00322		Irrigation	0	Valley Irrigation & Livestock	Santa Fe	Ground Water	3	1	2	35	10N	08E
E 00326		Irrigation	841.75	Valley Irrigation & Livestock	Santa Fe	Ground Water Shallow	3	3	2	35	10N	08E
E 04339		Domestic	0	Randy West	Santa Fe	Ground Water Shallow	1	1	1	33	10N	08E
E 04847		Domestic	3	Sam Shook	Santa Fe	Ground Water Shallow	1	2	1	33	10N	08E
E 05557		Domestic	3	Joseph Sweeney	Santa Fe	Ground Water Shallow	1	1	2	33	10N	08E
E 05936		Domestic	3	Cheryl Morris	Santa Fe	Ground Water Shallow	1	1	1	35	10N	08E
E 06409		Domestic	3	Kerrie Sullivan	Santa Fe	Ground Water Shallow	1	2	1	35	10N	08E
E 06785		Domestic and Livestock	3	Abbey L Martin	Santa Fe	Ground Water Shallow		2	1	35	10N	08E
E 08645		Domestic and Livestock	3	Karl Isselhard	Santa Fe	Ground Water Shallow			1	20	10N	08E
E 09131			0	Sierra Vista South	Sandoval	Ground Water Shallow	2	2	1	33	10N	08E
E 09139		Domestic and Livestock	3	Garth Mcmurray	Santa Fe	Ground Water Shallow	3	4	4	28	10N	08E
E 01580		Domestic	3	Paul Dannevich	Torrance	Ground Water Shallow	4	2	2	01	09N	08E
E 06793		Livestock watering	0	C T Godec	Torrance	Ground Water Shallow	4	2	2	01	09N	08E
E 00545		Domestic	2.5	Fred L Johnston	Torrance	Ground Water Shallow				17	09N	09E
E 01189		Irrigaiton	12.4	R.B. Clark	Torrance	Ground Water Shallow	3	1	1	17	09N	09E
E 01196		Domestic	3	L E Rodgers	Santa Fe	Ground Water Shallow				17	09N	09E
E 01226		Irrigation	3	Eugene N Brown	Torrance	Ground Water Shallow				17	09N	09E

Water Right File Number	Subbasin	Use	Diversion	Owner	County	Source	q64	q16	q4	Sec	Tws	Rng
E 01252		Domestic	3	William F Guenley	Torrance	Ground Water Shallow				17	09N	09E
E 01262		Domestic	3	Robert Lott	Torrance	Ground Water Shallow				17	09N	09E
E 01302		Domestic	3	Robert Mora	Torrance	Ground Water Shallow				17	09N	09E
E 01303		Domestic	3	D W Falls	Torrance	Ground Water Shallow				17	09N	09E
E 01899		Domestic	3	Joseph J Montecki	Torrance	Ground Water Shallow				17	09N	09E
E 01974		Domestic	3	Tommy Thompson	Torrance	Ground Water Shallow				17	09N	09E
E 02790		Domestic	3	William R Stevens	Torrance	Ground Water Shallow	3	4	1	17	09N	09E
E 03241		Domestic	3	William M. Dunn	Torrance	Ground Water Shallow				17	09N	09E
E 04325		Domestic	3	Rosemary Armijo	Torrance	Ground Water Shallow				17	09N	09E
E 04767		Domestic	3	Adelaido Herrera	Torrance	Ground Water Shallow				17	09N	09E
E 05360		Domestic	3	Pauline H Dube	Torrance	Ground Water Shallow	3	1	1	17	09N	09E
E 05756		Domestic	3	Joseph A Dow	Torrance	Ground Water Shallow	2	4	3	17	09N	09E
E 06110		Domestic	3	Charles Sheilds	Torrance	Ground Water Shallow	3	3	2	17	09N	09E
E 06475		Domestic	3	Sammy Carillo	Torrance	Ground Water Shallow	3	3	1	27	09N	09E
E 08302		Domestic	3	Bill Ward	Torrance	Ground Water Shallow	1	3	1	17	09N	09E
E 08556		Domestic	3	Earl Stephens	Torrance	Ground Water Shallow				17	09N	09E
E 09847		Domestic	0.5	Twyla Mccomb Cole	Torrance	Ground Water	3	1	1	17	09N	09E
RG 40172	Nambe Pojoaque-Tesuque	Domestic	3	Pete Coneway	Santa Fe	Ground Water Shallow	3	1	4	17	08N	10E
RA 08211		Livestock watering	3	Jim K. Miller	Chaves	Ground Water Shallow	2	1	3	35	07S	27E
L 01627	Lea County	Irrigation	0	J.M. Denton	Lea	Ground Water Shallow	2	3	2	07	13S	34E

Water Right File Number	Subbasin	Use	Diversion	Owner	County	Source	q64	q16	q4	Sec	Tws	Rng
L 03060	Lea County	Domestic and Livestock	3	Elizabeth Powell	Lea	Ground Water	3	2	2	27	13S	34E
L 03077	Lea County	Domestic	3	C L Emison	Lea	Ground Water Shallow	3	1	3	08	13S	34E
L 03226	Lea County	Prospecting or development of natural resource	0	Richardson And Bass	Lea	Ground Water Shallow		4	3	08	13S	34E
L 03683	Lea County	Irrigation	0	D M Collum	Lea	Ground Water		1	3	26	13S	34E
L 05048	Lea County	Prospecting or development of natural resource	0	B L Mcfarland Inc	Lea	Ground Water Shallow		2	2	17	14S	35E
L 05691	Lea County	Livestock watering	3	Phillip B Robinson	Lea	Ground Water Shallow		4	2	21	16S	38E
L 09647	Lea County	Prospecting or development of natural resource	0	Harben-Davis	Lea	Ground Water Shallow	1	3	3	22	16S	38E
L 10874	Lea County	Domestic	3	D'aun Lucero	Lea	Ground Water Shallow			3	16	16S	38E
L 11826	Lea County	Exploration	0	Frank Brand	Lea	Ground Water	4	3	2	21	16S	38E
L 01627	Lea County	Irrigation	0	J.M. Denton	Lea	Ground Water Shallow	2	3	2	07	13S	34E
L 03060	Lea County	Domestic and Livestock	3	Elizabeth Powell	Lea	Ground Water	3	2	2	27	13S	34E
L 03077	Lea County	Domestic	3	C L Emison	Lea	Ground Water Shallow	3	1	3	08	13S	34E
L 03226	Lea County	Prospecting or development of natural resource	0	Richardson And Bass	Lea	Ground Water Shallow		4	3	08	13S	34E
L 03683	Lea County	Irrigation	0	D M Collum	Lea	Ground Water		1	3	26	13S	34E
L 05048	Lea County	Prospecting or development of natural resource	0	B L Mcfarland Inc	Lea	Ground Water Shallow		2	2	17	14S	35E
L 11453	Lea County	Construction of Public Works	0	Lea County Road Department	Lea	Ground Water Shallow	2	4	3	31	14S	36E
L 00617	Lea County	Irrigation	0	S.L. Sibley	Lea	Ground Water Shallow		1	4	09	15S	36E
L 00724	Lea County	Irrigation	428.88	Bobby R. Blackwood	Lea	Ground Water Shallow	1	1	2	09	15S	36E

Water Right File Number	Subbasin	Use	Diversion	Owner	County	Source	q64	q16	q4	Sec	Tws	Rng
L 03262	Lea County	Prospecting or development of natural resource	0	Magnolia Petroleum Company	Lea	Ground Water Shallow	1	1	2	09	15S	36E
L 04773	Lea County	Domestic	3	Gene Franklin	Lea	Ground Water		2	4	15	15S	36E
L 08221	Lea County	Domestic and Livestock	3	Steve D Thompson	Lea	Ground Water Shallow	2	1	1	09	15S	36E
L 08332	Lea County	Domestic and Livestock	3	Cary P Kerby	Lea	Ground Water Shallow	2	1	1	09	15S	36E
L 10684	Lea County	Livestock Watering	3	Steve Thompson	Lea	Ground Water Shallow	2	1	1	09	15S	36E
L 10755	Lea County	Domestic	3	David Sandoval	Lea	Ground Water Shallow	2	2	1	09	15S	36E
L 11456	Lea County	Domestic and Livestock	3	Bobby Blackwood	Lea	Ground Water Shallow	1	2	1	09	15S	36E
L 11750	Lea County	Prospecting or development of natural resource	0	Cimerex	Lea	Ground Water Shallow	4	3	3	10	15S	36E
L 00717	Lea County	Irrigation	0	H W Wilks	Lea	Ground Water Shallow				01	16S	37E
L 10464	Lea County	Domestic	0	Aldo Porraz	Lea	Ground Water Shallow				01	16S	37E
L 11061	Lea County	Domestic	3	Tgd Limited Partnership	Lea	Ground Water				01	16S	37E
L 05691	Lea County	Livestock watering	3	Phillip B Robinson	Lea	Ground Water Shallow		4	2	21	16S	38E
L 09647	Lea County	Prospecting or development of natural resource	0	Harben-Davis	Lea	Ground Water Shallow	1	3	3	22	16S	38E
L 10874	Lea County	Domestic	3	D'aun Lucero	Lea	Ground Water Shallow			3	16	16S	38E
L 11826	Lea County	Exploration	0	Frank Brand	Lea	Ground Water	4	3	2	21	16S	38E

[1] The State Engineer database is not completely populated on a statewide basis yet. Some areas along the proposed segments are still incomplete (NMSE, 2012); therefore, final identification of the existence and location of groundwater resources would be conducted through field investigations and contacts with landowners prior to construction.

[2] The well locations are based on PLSS coordinates converted to UTM; the exact well location may not have been field verified (NMSE, 2012).

APPENDIX D

SOIL DESCRIPTIONS BY GROUP AND MAPPING UNIT

WEP III – Soil Descriptions by Group and Mapping Unit

BLM Farmington Field Office – San Juan County (Segment 1)

The proposed loop pipeline segment crosses 40.15 miles of soils in San Juan County, which is approximately 17 percent of the total project length. Soils within this group typically have elevation ranges from 4,800 to 6,400 feet, average annual precipitation of 6 to 10 inches and average air temperatures of 51 to 55 degrees F (USDA, 1977).

Soils on Alluvial Fans, Fan Remnants, Piedmonts, Terraces. The primary soils group crossed by Segment 1 developed on fan remnants and stream terraces and accounts for about 54 percent of the total length of Segment 1 (21.71 miles). The dominant soil mapping unit in this group is the Doak-Sheppard-Shiprock association (Mapping Unit DS). These soils are typically deep, well drained, slightly sodic or saline within 30 inches of the soil surface. They are susceptible to soil compaction and may be difficult to reclaim, primarily because of the region's low precipitation.

Soils on Drainageways, Floodplains, Stream Terraces, and Depressions. Segment 1 would cross 11.06 miles of soils which have developed along floodplains, drainageways, and stream terraces. The dominant soil in this group is the Fruitland-Persayo-Sheppard complex (Mapping Unit FX). These soils are deep, well drained, slightly sodic or saline within 30 inches of the soil surface. They are susceptible to soil compaction and may be difficult to reclaim due to the region's low precipitation.

Soils on Uplands: Hills, Mesas, Plateaus, Ridges. Approximately 2.91 miles of Shiprock fine sandy loam would be crossed in this general soil group. This mapping unit is deep and well drained. The hazard for water erosion is slight and wind erosion is moderate, and it is moderately susceptible to compaction. It is classified as a farmland of statewide importance. The soils may be difficult to reclaim, primarily because of the region's low precipitation.

Soils on Breaks, Escapments. Segment 1 would cross 2.78 miles of Badland soils found along breaks. This soil has steep slopes, up to 80 percent, and a restrictive layer of bedrock at 0-2 inches. It is composed of non-stony barren shale uplands and the slopes range from 5 to 80 percent. This soil group is difficult to reclaim due to shallow bedrock, low available water capacity, and slopes as well as the region's low precipitation.

Soils on Dunes. Approximately 1.69 miles of the Sheppard-Mayqueent-Shiprock soil would be crossed (Mapping Unit Sd). This soil is found on dunes. It is deep and is somewhat excessively drained. The main limitations to reclamation are the hazard of soil blowing and low available water capacity/droughtiness due to its coarse sandy texture, which is further limited by the region's low precipitation.

BLM Farmington Field Office – Rio Arriba County (Segment 1)

The proposed loop pipeline segment crosses 5.15 miles of soils in Rio Arriba County, which is approximately 2 percent of the total project length. Soils within this group typically have elevation ranges from 6,000 to 7,200 feet, average annual precipitation of 10 to 16 inches and average air temperatures of 45 to 50 degrees F (USDA, 1982).

Soils on Drainageways, Floodplains, Stream Terraces, and Depressions. Segment 1 would cross 3.12 miles of soils which have developed along floodplains. The dominant soil in this group is the Sparank-San Mateo silt loams (Mapping Unit 10). These soils are very deep, well drained, moderately sodic or saline within 22 inches of the soil surface. The soil is susceptible to compaction and may be difficult to reclaim because of the soils sodic characteristic and low regional precipitation.

Soils on Breaks, Escapments. The proposed segment would cross 1.63 miles of the Vessilla-Menefee-Orlie complex soil (Mapping Unit 110). This soil is found along breaks. It is well drained and has a restrictive layer of bedrock at approximately 10-20 inches. The soil is susceptible to soil compaction and is difficult to reclaim because of its shallow depth and very low available water capacity.

Soils on Dunes. Approximately 0.40 mile of the Pinavetes-Florita complex (Mapping Unit 9) would be crossed by Segment 1. This soil is found on dunes. It is very deep and somewhat excessively drained. The coarse grained soil is highly susceptible to wind erosion.

BLM Farmington Field Office – McKinley County (Segment 2)

The proposed loop pipeline segment crosses 7.38 miles of soils in McKinley County, which is approximately 3 percent of the total project length. Soils within this group typically have elevation ranges from 6,400 to 6,900 feet, average annual precipitation of 9 to 10 inches, and average air temperatures of 46 to 49 degrees F (USDA, 2001).

Soils on Drainageways, Floodplains, Stream Terraces, and Depressions. Segment 2 would cross 5.91 miles of soils which have developed along stream terraces and valley floors. The dominant soil in this group is the Tsosie-Councelor-Blancot fine sandy loams (Mapping Unit 10). These soils are typically deep, well drained, and are slightly sodic in subsurface horizons. The soil is susceptible to soil compaction and may be difficult to reclaim primarily because of the region's low precipitation and sodic characteristic.

Soils on Alluvial Fans, Fan Remnants, Piedmonts, Terraces. The proposed loop pipeline segment would cross 0.78 mile of soils which have developed along alluvial fan and fan remnants, and mesas. The dominant soil in this group is the Billings silty clay loam (Mapping Unit Bk). These soils are deep, well drained, slightly saline, and sodic within 30 inches. The Billings silty clay loam is considered a farmland of state wide importance. The soil is susceptible to soil compaction and rarely flooded.

Soils on Hills and Ridges. The proposed segment would cross 0.69 mile of soils which have developed along sideslopes on ridges and hills. The dominant soil in this group is the Doakum-Betonnie complex (Mapping Unit 11). These soils are deep, well drained, and susceptible to soil compaction.

BLM Rio Puerco Field Office – Sandoval County (Segments 2 and 3)

Proposed loop pipeline Segments 2 and 3 cross 52.35 miles of soils in Sandoval County, which is approximately 21 percent of the total project length. Soils within this group typically have elevation ranges from 5,500 to 6,800 feet, average annual precipitation of 10 to 13 inches and average air temperatures of 52 to 54 degrees F (USDA, 1982).

Soils on Alluvial Fans, Fan Remnants, Piedmonts, Terraces. Segments 2 and 3 would cross 14.24 miles of soils which have developed along bajadas, mesas, fan remnants, and piedmonts. The dominant soils in this group are the Penistaja-Berent association (Mapping Unit Pn) and La Fonda loam (Mapping Unit 55) and the Harvey-Ildefonso-La Fonda association (Mapping Unit 59). These soils are very deep, well drained, and available water capacity is high. These soils are susceptible to soil compaction. The La Fonda loam is slightly sodic. The Las Lucas soil (Mapping Unit Lc) has a restrictive layer between 40-60 inches. Approximately 1.04 miles of soils crossed within this group are classified as farmland of statewide importance, Billiings silty clay loam (mapping unit Bk).

Soils on Hills and Ridges. Approximately 11.52 miles of soils, found along hills and ridges would be crossed by Segments 2 and 3. Slopes range from 3 to 25 percent and all the soils have a restrictive layer of bedrock between 0 and 10 inches. The Sandoval fine sandy loam

(Mapping Unit 235) and Persayo gravelly soils (Mapping Unit Pr) are susceptible to compaction (4.25 miles). Additionally, the Sandoval fine sandy loam mapping unit is slighty sodic. Approximately 7.87 miles of soils in this group are sensitive to reclamation due to slope, depth to a restrictive layer, and sodic characteristics.

Soils on Uplands: Hills, Mesas, Plateaus, Ridges. Segments 2 and 3 would cross 9.33 miles of soils in this group found on uplands. Slopes range from 0 to 35 percent. The dominant mapping units in this soil group are the Litle-Las Lucas-Persayo association (Mapping Unit Lt), Berent-Sandstone outcrop association (Bf), and Penistaja fine sandy loam (Mapping Unit Pf). The main limiting soil characteristics of this group are reclamation sensitivity because they have a restrictive layer between 20 and 40 inches (5.4 miles) and steep slopes (4.13 miles) or are saline or sodic (2.96 miles).

Soils on Breaks, Escapments. Segments 2 and 3 would cross 6.76 miles of soils in this group. Slopes range from 0 to 75 percent, and 5.91 miles of these soils have a restrictive layer of bedrock between 0-20 inches. The dominant soils are Rock outcrop-Saido complex (Mapping Unit 110) and Rock outcrop-Zia complex (Mapping Unit 111). These soils are slightly saline and have a restrictive layer of bedrock; therefore, they have a low opportunity for restoration.

Soils on Drainageways, Floodplains, Stream Terraces, and Depressions. The proposed loop pipeline segments would cross 6.09 miles of soils which have developed along drainageways, stream terraces and floodplains. The dominant soils in this group are the Querencia loam (Mapping Unit 226) and Alkali alluvial land (Mapping Unit Ak). These soils are very deep, well drained, slightly sodic, and available water capacity is high. They are susceptible to soil compaction and may be difficult to reclaim. Approximately 0.51 mile of soils in this group (Sparank clay loam and the Christianberg clay) are classified as having brief/occasional flooding periods between July and October.

Soils on Dunes. Approximately 4.42 miles of soils found on dunes and valley sides would be crossed by Segments 2 and 3. The Pinavetes-Galisteo association (Mapping Unit 130) is very deep, excessively drained, and the available water capacity is very low. This soil is highly susceptible to wind erosion.

<u>BLM Rio Puerco Field Office – Bernalillo County (Segment 3)</u>

Segment 3 would cross 4.51 miles of soils in Bernalillo County, which is approximately 2 percent of the total project length. Soils within this group typically have elevation ranges from 4,800 to 7,500 feet, average annual precipitation of 7 to 16 inches and average air temperatures of 47 to 60 degrees F (USDA, 1973).

Soils on Hills and Ridges. Approximate 3.40 miles of soils found on hills and ridges would be crossed by Segment 3. The dominant soil in this group is Rock outcrop-Ustolls complex (Mapping Unit RUF). Slopes for this mapping unit range from 15 to 70 percent and have a very severe water erosion hazard. All of the soils in this landform group are either moderately susceptible or susceptible to compaction.

Soils on Alluvial Fans, Fan Remnants, Piedmonts, Terraces. Segment 3 would cross 1.11 miles of soils which have developed along bajadas, mesas, and fan remnants. The dominant soil in this group is the Cerrillos-Sedillo complex (Mapping Unit 510). These soils are deep, well drained, and have a moderate to high available water capacity. These soils are susceptible to soil compaction.

BLM Rio Puerco Field Office – Torrance County (Segment 3)

Segment 3 would cross 16.18 miles of soils in Torrance County, which is approximately 7 percent of the total project length. Soils within this group typically have elevation ranges from 5,700 to 7,000 feet, average annual precipitation of around 13 inches (USDA, 1962).

Soils on Alluvial Fans, Fan Remnants, Piedmonts, Terraces. Segment 3 would cross 9.43 miles of soils which have developed along fan remnants and piedmonts. The dominant soils in this group are the Harvey loam (Mapping Unit Hg & Hf), Clovis loam (Mapping Unit Cn), and Otero and Palma soils (Mapping Unit Op). These soils are moderately deep, well drained, fine grained, and have a moderate to high available water capacity. They are moderately susceptible to soil compaction. Approximately 3.74 miles of soils within this group are classified as prime farmland – Clovis Loam and Witt Loam (Mapping Unit Wn); the Harvey Loam and Witt Loam (Mapping Unit Wp) are classified as farmland of statewide importance.

Soils on Drainageways, Floodplains, Stream Terraces, and Depressions. Segment 3 would cross 4.29 miles of soils which have developed along stream terraces and valley floors. The dominant soils in this group are the Manzano loam (Mapping Unit Mc & Ma) and Pedrick loamy fine sand (Pd). These soils are flat, deep, well drained, slightly to moderately saline, and are susceptible to soil compaction. The Manzano loam is classified as prime farmland, and three other soils in this group are classified as farmland of statewide importance – Ildefonso fine sandy loam (Mapping Unit Ik), Pedrick loamy fine sand (Pd), and Willard loam (Wk).

Soils on Hills and Ridges. Approximately 2.32 miles of soils found along hills and ridges would be crossed by Segment 3. Slopes range from 1 to 9, and all the soils in this group are susceptible to compaction. The Kech gravelly loam (Kg), which represents 0.43 mile of this soil group, has a restrictive layer of bedrock between 10 and 20 inches.

Soils on Playas. Approximately 0.13 mile of soils (Mapping Unit Py) found on playas would be crossed by Segment 3. This soil is hydric, moderately saline, available water capacity is very low, and ponding is frequent. It is susceptible to compaction and rutting and restoration potential is low.

BLM Taos Field Office – Santa Fe County (Segment 3)

The proposed loop pipeline segment crosses 16.94 miles of soils in Santa Fe County, which is approximately 7 percent of the total project length. Soils within this group typically have elevation ranges from 4,800 to 7,500 feet, average annual precipitation of 9 to 20 inches, and average air temperatures of 40 to 54 degrees F (USDA, 2005).

Soils on Alluvial Fans, Fan Remnants, Piedmonts, Terraces. Segment 3 would cross 14.82 miles of soils which have developed along fan remnants and piedmonts. The dominant soils in this group are the Hyer-Witt complex (Mapping Unit 600). These soils are very deep, well drained, and available water capacity is moderate to high. In this group only about 2.69 miles of soils are susceptible to compaction, the main limiting characteristic.

Soils on Drainageways, Floodplains, Stream Terraces, and Depressions. Segment 3 would cross 2.12 miles of soils which have developed along floodplains and valley floors. The limiting characteristics of this soil group include brief, occasional flooding between July and September.

BLM Roswell Field Office – Guadalupe County (Segment 5)

Segment 5 would cross 8.28 miles of soils in Guadalupe County, which is approximately 3.5 percent of the total project length. Soils within this group typically have elevation ranges from 4,700 to 6,200 feet, average annual precipitation of 11 to 13 inches, and average air temperatures of 52 to 55 degrees F (USDA, 1990).

Soils on Uplands: Hills, Mesas, Plateaus, Ridges. Segment 5 would cross 7.60 miles of soils in this group found on plateaus. Slopes range from 0 to 8 percent. The dominant soil group is the Pastura-Clovis association (Mapping Unit 76). All the soils in this group are susceptible to compaction and 6.25 miles of soils have a restrictive layer of bedrock between 5 and 20 inches which limits the available water capacity and potential reclamation sensitivity.

Soils on Hills and Ridges. Segment 5 would cross 0.50 mile of soils in this group found on hillslopes and ridges. These soils are well drained with slopes from 0 to 30 percent, have a restrictive layer of bedrock around 10-20 inches, and are susceptible to compaction.

Soils on Alluvial Fans, Fan Remnants, Piedmonts, Terraces. Segment 5 would cross 0.18 mile of soils which have developed along alluvial flats within one soil mapping unit, the Clovis fine sandy loam (Mapping Unit 71). This soil is deep, well drained, and susceptible to compaction.

BLM Roswell Field Office – Lincoln County (Segment 5)

Segment 5 would cross 16.90 miles of soils in Lincoln County, which is approximately 7 percent of the total project length. Soils within this group typically have elevation ranges from 4,600 to 7,500 feet, average annual precipitation of about 14 to 20 inches, and average air temperatures of 45 to 56 degrees F (USDA, 1980).

Soils on Plains. Segment 5 would cross 12.51 miles of the Pastura loam (Mapping Unit 53) soil which has developed on plains. This soil is very shallow with a restrictive layer around 5-20 inches. It is well drained and susceptible to compaction. The soil has a moderate reclamation sensitivity.

Soils on Hills and Ridges. Segment 5 would cross 4.02 miles of the soils which have developed along hills and hillslopes. The dominant soil type is the Clovis-Pastura association (Mapping Unit 6). This soil is deep, well drained, and very susceptible to compaction and rutting.

Soils on Uplands: Hills, Mesas, Plateaus, Ridges. Segment 5 would cross 0.27 mile of one soil, Travessilla-Rock outcrop association (Mapping Unit 93), which has developed along hills. The mapping unit slope ranges from 5 to 15 percent, has a restrictive layer from 6 to 20 inches, and may be sensitive to reclamation.

Soils on Drainageways, Floodplains, Stream Terraces, and Depressions. Segment 5 would cross 0.11 mile of one soil, Ruidoso clay loam (Mapping Unit 76), which has developed on the floors and sides of valleys. This soil is deep, well drained, slightly saline, sensitive to compaction, and classified as prime farmland.

BLM Roswell Field Office – De Baca County (Segment 5)

Segment 5 would cross 5.03 miles of soils in De Baca County, which is approximately 2 percent of the total project length. Soils within this group typically have elevation ranges from 4,800 to 5,400 feet, average annual precipitation of 12 to 14 inches, and average air temperatures of 55 to 57 degrees F (USDA, 1982).

Soils on Uplands: Hills, Mesas, Plateaus, Ridges. Segment 5 would cross 4.12 miles of one soil, Pastura-Darvey Association (Mapping Unit 40), which has developed along uplands in De Baca County. This soil is well drained and is susceptible to compaction. The soil has a restrictive layer from 7 to 15 inches, which limits the available water capacity and reclamation potential.

Soils on Hills and Ridges. Segment 5 would cross 0.92 mile of soils which have developed along hillslopes and ridges. These soils are well drained, permeability is moderate, water capacity is high to very high, and they are susceptible to compaction.

BLM Roswell Field Office – Chaves County (Segment 6)

Segment 6 would cross 27.38 miles of soils in Chaves County, which is approximately 12 percent of the total project length. Soils within this group typically have elevation ranges from 3,500 to 4,100 feet, average annual precipitation of 11 to 14 inches, and average air temperatures of 59 to 61 degrees F (USDA, 1973).

Soils on Uplands: Hills, Mesas, Plateaus, Ridges. Segment 6 would cross 17.92 miles of soils which have developed along plateaus and terraces. Slopes range from 0 to 7 percent; available water capacity ranges from low to moderate; the soils are moderately susceptible to susceptible to compaction; and restoration opportunity is moderate to high. One soil in this group, Faskin fine sand (Mapping Unit FaA), is sensitive to wind erosion.

Soils on Drainageways, Floodplains, Stream Terraces, and Depressions. Segment 6 would cross 3.77 miles of soils which have developed along valley flats and floodplains. The dominant soil in this group is Tucumcari clay loam (Mapping Unit TvA). It is deep, well drained, and susceptible to compaction. The Ustifluvents soil (Mapping Unit USA), which comprises 1.02 miles of this soil group, is deep and somewhat poorly drained; frequent flooding occurs from March to October and the soil is very susceptible to compaction.

Soils on Alluvial Fans, Fan Remnants, Piedmonts, Terraces. Segment 6 would cross 3.21 miles of soils which have developed along alluvial fans and piedmonts. These soils are deep, well drained, and non-saline to slightly saline. Their hazard for water erosion is moderate, and they are moderately to very susceptible to compaction.

Soils on Hills and Ridges. Segment 6 would cross 1.35 miles of soils which have developed on hillslopes and ridges. These soils are well drained; the available water capacity is low to very low; and they have a slight to moderate hazard of water erosion. The Yturbide loamy sand (Mapping Unit Ytc) is susceptible to wind erosion and the Sharvana fine sandy loam has a restrictive layer typically between 7 to 20 inches.

Soils on Breaks, Escapments. Segment 6 would cross 1.13 miles of one soil which has developed on escarpments. The Torriorthents-Philder-Rock outcrop association (Mapping Unit TPD) is a shallow, well drained soil. It is susceptible to water erosion and has a low opportunity for reclamation due to a restrictive layer, very low available water capacity, and steep slopes.

BLM Carlsbad Field Office – Lea County (Segment 7)

Segment 7 would cross 32.59 miles of soils in Lea County, which is approximately 14 percent of the total project length. Soils within this group typically have elevation ranges from 4,200 to 3,700 feet, average annual precipitation of 12 to 16 inches, and average air temperatures of 58 to 60 degrees F (USDA, 2012a).

Soils on Plains. Segment 7 would cross 27.65 miles of soils which have developed along plains. The dominant soils are the Kimbrough-Lea complex (Mapping Unit Kh), the Stegall loam (Mapping Unit So), and the Lea Loam (Mapping Unit Le). Slopes range from 0 to 3 percent, available water capacity is low to very low, and they have a restrictive layer from 4-20 inches. These soils are susceptible to compaction and reclamation opportunity is low because of the shallow restrictive layer and low available water capacity.

Soils on Hills and Ridges. Segment 7 would cross 2.78 miles of soils which have developed along hills and ridges. The dominant soil crossed in this group is the Kimbrough gravelly loam. The unit is well drained, available water capacity is low, and it has a restrictive layer around 4-20 inches. These soils are susceptible to compaction and reclamation opportunity is low.

Soils on Playas and Playa Rims. Segment 7 would cross 2.16 miles of soils which have developed along playas and playa rims. The dominant soils in this group are the Portales fine

sandy loam (Mapping Unit Pf) and Mansker loam (Mapping Unit Me). These soils are typically deep, well drained and have a moderate to high available water capacity. They are susceptible to compaction and the opportunity for reclamation is high.

APPENDIX E

SPECIES COMMON AND SCIENTIFIC NAMES

Species Common and Scientific Names

Segment 1

Scientific Name	Common Name
Trees	
Juniperus monosperma (Engelm.) Sarg.	oneseed juniper
Juniperus osteosperma (Torr.) Little	Utah Juniper
Pinus ponderosa Lawson & C. Lawson	ponderosa pine
Tamarix ramosissima Ledeb.	saltcedar
Shrubs	
*Atriplex canescens (*Pursh) Nutt.	fourwing saltbush
Atriplex confertifolia (Torr & Frem.)	shadscale
Atriplex corrugata S. Wats.	mat saltbush
Atriplex cuneata A. Nelson ssp. *cuneata*	valley saltbush
Atriplex obovata Moq.	mound saltbush
Ephedra viridis Coville	Mormon tea
*Ericameria nauseosa (*Pall. ex Pursh) G.L. Nesom & Baird	rubber rabbitbrush
Sarcobatus vermiculatus (Hook.) Torr.	greasewood
Artemisia tridentata Nutt.	big sagebrush
Chrysothamnus sp. Nutt.	rabbitbrush
Forbs	
Abronia fragrans Nutt. ex Hook.	snowball sand verbena
Aliciella formosa	Aztec gilia
Ambrosia sp. L.	ragweed
Astragalus micromerius Barneby	Chaco milkvetch
*Bassia americana (*S. Watson) A.J. Scott	green molly
Chaenactis stevioides Hook. & Arn.	chaenactis
Cryptantha crassisepala (Torr. & A. Gray) Greene	thicksepal cryptantha
Cymopterus purpurascens (A. Gray) M.E. Jones	widewing springparsley
Descurainia pinnata (Walter) Britton	western tansymustard
Erodium cicutarium (L.) L'Hér. ex Aiton	redstem stork's bill
Halogeton glomeratus (M. Bieb.) C.A. Mey.	saltlover
Oenothera pallida Lindl.	pale evening primrose
Phacelia crenulata Torr. ex S. Watson	cleftleaf wild heliotrope
Phlox caryophylla Wherry	love phlox
Salsola kali L.	Russian thistle
Sphaeralcea coccinea (Nutt.) Rydb.	scarlet globemallow
Streptanthella longirostris (S. Watson) Rydb.	longbeak streptanthella
Townsendia incana Nutt.	hoary Townsend daisy
Grasses	
Achnatherum hymenoides (Roem. & Schult.) Barkworth	Indian ricegrass
Bouteloua gracilis (Willd. ex Kunth) Lag. ex Griffiths	blue grama
Bromus tectorum L.	cheatgrass
Distichlis spicata (L.) Greene	saltgrass
Elymus elymoides (Raf.) Swezey ssp. *elymoides*	squirreltail
Pleuraphis jamesii Torr.	James' galleta
Sporobolus airoides (Torr.) Torr.	alkali sacaton
*Vulpia octoflora (*Walter) Rydb. *var. hirtella* (Piper) Henr.	sixweeks fescue
Cactus	
Coryphantha vivipara	spinystar

Scientific Name	**Common Name**
Opuntia polyacantha Haw.	plains pricklypear
Sclerocactus cloveriae var. brackii	Brack's hardwall Cactus
Birds	
Amphispiza bilineata	black-throated sparrow
Aphelocoma californica	western scrub-jay
Carpodacus mexicanus	house finch
Chondestes grammacus	lark sparrow
Gymnorhinus cyanocephalus	pinyon jay
Mimus polyglottos	northern mockingbird
Passerina caerulea	blue grosbeak
Pipilo maculatus	spotted towhee
Piranga flava	hepatic tanager
Pooecetes gramineus	vesper sparrow
Psaltriparus minimus	bushtit
Salpinctes obsoletus	rock wren
Sayornis saya	Say's phoebe
Selasphorus platycercus	broad-tailed hummingbird
Sialia currucoides	mountain bluebird
Spizella passerina	chipping sparrow
Tachycineta thalassina	violet-green swallow
Tyrannus verticalis	western kingbird
Tyrannus vociferans	Cassin's kingbird
Mammals	
Canis latrans	coyote
Cervus elaphus nelson	elk
Cynomys gunnisoni	Gunnison’s prairie dog
Dipodomys spectabilis	banner-tailed kangaroo rat
Lepus californicus	black-tailed jackrabbit
Neotoma sp.	woodrat
Odocoileus hemionus	mule deer
Sylvilagus audubonii	desert cottontail
Taxidea taxus	American badger

Segment 2

Scientific Name	Common Name
Trees	
Elaeagnus angustifolia L.	Russian olive
Juniperus monosperma (Engelm.) Sarg.	oneseed juniper
Juniperus osteosperma (Torr.) Little	utah juniper
Pinus edulis Engelm.	twoneedle pinyon
Quercus gambelii Nutt.	gambel oak
Shrubs	
Allenrolfea occidentalis (S. Watson) Kuntze	iodinebush
Artemisia bigelovii A. Gray	bigelow sage
Artemisia filifolia Torr.	sand sagebrush
Artemisia ludoviciana Nutt. ssp. ***albula*** (Woot.) D.D. Keck	white sagebrush
Artemisia nova A. Nelson	black sagebrush
Artemisia tridentata Nutt.	big sagebrush
Atriplex canescens (Pursh) Nutt.	fourwing saltbrush
Atriplex confertifolia (Torr. & Frém.) Watson	shadscale saltbush
Atriplex corrugata S. Watson	mat saltbush
Atriplex obovata Moq.	mound saltbush
Brickellia microphylla (Nutt.) A. Gray	littleleaf brickellbush
Chrysothamnus sp. Nutt.	rabbitbrush
Chrysothamnus greenei (A. Gray) Greene	Greene's rabbitbrush
Ephedra sp. L.	jointfir
Ephedra torreyana S. Watson	Torrey's jointfir
Ericameria greenei (A. Gray) G.L. Nesom	Greene's goldenbush
Ericameria nauseosa (Pall. ex Pursh) Nesom & Baird	rubber rabbitbrush
Eriogonum corymbosum Benth.	crispleaf buckwheat
Eriogonum jamesii Benth.	James' buckwheat
Eriogonum leptophyllum (Torr.&Gray) Woot. & Standl.	slenderleaf buckwheat
Gutierrezia microcephala (DC.) A. Gray	threadleaf snakeweed
Gutierrezia sarothrae (Pursh) Britton & Rusby	broom snakeweed
Krascheninnikovia lanata (Pursh) A. Meeuse & Smit	winterfat
Lycium sp.	wolfberry
Lycium pallidum Miers	pale desert-thorn
Populus fremontii S. Watson	fremont cottonwood
Psorothamnus scoparius (A. Gray) Rydb.	broom dalea
Quercus pauciloba Rydb. (pro sp.) *[gambelii* × *turbinella*]	Oak
Rhus trilobata Nutt.	skunkbush sumac
Salix exigua Nutt.	narrowleaf willow
Sarcobatus vermiculatus (Hook.) Torr.	greasewood
Senecio flaccidus Less.	threadleaf ragwort
Tamarix chinensis L.	five-stamen tamarisk

Scientific Name	Common Name
Tetradymia sp. DC.	horsebrush
Forbs	
Abronia bigelovii Heimerl	galisteo sand verbena
Abronia fragrans Nutt. ex Hook.	snowball sand verbena
Acroptilon repens (L.) DC.	Russian knapweed
Amaranthus blitoides S. Watson	mat amaranth
Ambrosia acanthicarpa Hook.	flatspine bur ragweed
Ambrosia psilostachya DC.	cuman ragweed
Arenaria sp.	sandwort
Artemisia dracunculus L.	tarragon
Artemisia frigida Willd.	prairie sagewort
Asclepias asperula (Decne.) Woodson	spider milkweed
Asclepias uncialis Greene	wheel milkweed
Astragalus kentrophyta A. Gray	spiny milkvetch
Astragalus mollissimus Torr.	wooly locoweed
Atriplex saccaria S. Watson	sack saltbush
Baileya multiradiata Harv. & A. Gray ex A. Gray	desert marigold
Bassia scoparia (L.) A.J. Scott	burningbush
Boerhavia spicata Choisy	creeping spiderling
Calylophus hartwegii (Benth.) P.H. Raven	Hartweg's sundrops
Cardaria draba (L.) Desv.	whitetop
Castilleja angustifolia (Nutt.) G. Don	NW Indian paintbrush
Chaenactis stevioides Hook. & Arn.	Esteve's pincushion
Chaetopappa ericoides (Torr.) G.L. Nesom	rose heath
Chamaesyce fendleri (Torr. & A. Gray) Small	Fendler’s sandmat
Chamaesyce serpyllifolia (Pers.) Small	thymeleaf sandmat
Chenopodium sp. L.	goosefoot
Cleome serrulata Pursh	rocky mountain beeplant
Cordylanthus wrightii A. Gray	Wright's bird's beak
Croton texensis (Klotzsch) Müll. Arg.	Texas croton
Cryptantha cinerea (Greene) Cronquist	James’ cryptantha
Dalea candida Michx. ex Willd.	white prairie clover
Delphinium scaposum Greene	tall mountain larkspur
Erigeron flagellaris A. Gray	trailing fleabane
Eriogonum cernuum Nutt.	nodding buckwheat
Eriogonum microthecum Nutt.	slender buckwheat
Eriogonum rotundifolium Benth.	roundleaf buckwheat
Evolvulus sericeus Sw.	silver dwarf morning-glory
Gaillardia pinnatifida Torr.	red dome blanketflower
Gaura coccinea Nutt. ex Pursh	scarlet beeblossom
Grindelia squarrosa (Pursh) Dunal	curlycup gumweed

Scientific Name	Common Name
Gutierrezia sarothrae (Pursh) Britton & Rusby	broom snakeweed
Halogeton glomeratus (M. Bieb.) C.A. Mey.	saltlover
Heliotropium convolvulaceum (Nutt.) A. Gray	phlox heliotrope
Heterotheca villosa (Pursh) Shinners	hairy false goldenaster
Hoffmannseggia drepanocarpa A. Gray	sicklepod holdback
Hymenopappus L'Hér.	hymenopappus
Hymenoxys odorata DC.	bitter rubberweed
Hymenoxys richardsonii (Hook.) Cockerell	pingue rubberweed
Isocoma rusbi Greene	Rusby's goldenbush
Kallstroemia parviflora J.B.S. Norton	warty caltrop
Lappula sp. Moench	stickweed
Leptodactylon sp. Hook. & Arn	pricklyphlox
Lesquerella fendleri (A. Gray) S. Watson	Fendler's bladderpod
Linanthus pungens (Torr.)Porter & Johnson	granite prickly phlox
Lygodesmia grandiflora (Nutt.) Torr. & A. Gray	largeflower skeletonplant
Machaeranthera canescens (Pursh) A. Gray	hoary tansyaster
Machaeranthera gracilis (Nutt.) Shinners	slender goldenweed
Malva sp. L.	mallow
Melampodium leucanthum Torr. & A. Gray	plains blackfoot
Melilotus officinalis (L.) Lam.	yellow sweetclover
Mentzelia multiflora (Nutt.) A. Gray	adonis blazingstar
Mentzelia perennis Woot.	perennial blazingstar
Mentzelia pumila Nutt. ex Torr. & A. Gray	dwarf mentzelia
Mirabilis L.	four o'clock
Mirabilis multiflora (Torr.) A. Gray	Colorado four o'clock
Oenothera L.	evening primrose
Palafoxia sphacelata (Nutt. ex Torr.) Cory	othake
Parryella filifolia Torr. & A. Gray ex A. Gray	common dunebroom
Pectis angustifolia Torr.	lemonscent
Phacelia Juss.	phacelia
Phemeranthus confertiflorus (Greene) Hershkovitz	New Mexico fameflower
Physaria sp. (Nutt. ex Torr. & A. Gray) A. Gray	twinpod
Plantago patagonica Jacq	wooly plantain
Polygala alba Nutt.	white milkwort
Portulaca oleracea L.	little hogweed
Proboscidea parviflora (Woot.) Woot. & Standl.	doubleclaw
Psilostrophe tagetina (Nutt.) Greene	woolly paperflower
Psoralidium lanceolatum (Pursh) Rydb.	lemon scurfpea
Psoralidium sp. Rydb.	scurfpea
Salsola tragus L.	prickly Russian thistle
Sanvitalia abertii A. Gray	Abert's creeping zinnia
Scabrethia scabra (Hook.) W.A. Weber	badlands mule-ears

Scientific Name	Common Name
Senecio sp.L.	ragwort
Sisymbrium sp. L.	hedgemustard
Solanum elaeagnifolium Cav.	silverleaf nightshade
Sphaeralcea coccinea (Nutt.) Rydb.	scarlett globemallow
Sphaeralcea polychroma La Duke	hot springs globemallow
Stephanomeria exigua Nutt.	small wirelettuce
Stephanomeria pauciflora (Torr.) A. Nelson	brownplume wirelettuce
Suaeda moquinii (Torr.) Greene	Mojave seablite
Tetraneuris ivesiana Greene	Ives' fournerved daisy
Tetraneuris sp. Greene	four-nerve daisy
Thelesperma megapotamicum (Spreng.) Kuntze	Hopi tea greenthread
Tiquilia latior (I.M. Johnst.) A.T. Richardson	matted crinklemat
Townsendia annua Beaman	annual townsend daisy
Townsendia incana Nutt.	hoary townsend daisy
Verbesina encelioides (Cav.) Benth. & Hook. f.exGray	golden crownbeard
Vulpia octoflora (Walter) Rydb.	sixweeks fescue
Xanthium strumarium L.	rough cocklebur
Grasses	
Achnatherum hymenoides (Roem. & Schult.) Barkworth	Indian ricegrass
Agropyron cristatum (L.) Gaertn.	crested wheatgrass
Aristida purpurea Nutt.	purple threeawn
Bouteloua barbata Lag.	sixweeks grama
Bouteloua curtipendula (Michx.) Torr.	sideoats grama
Bouteloua eriopoda (Torr.) Torr.	black grama
Bouteloua gracilis (Willd. ex Kunth) Lag. ex Griffiths	blue grama
Dasyochloa pulchella (Kunth) Willd. ex Rydb	low woollygrass
Distichlis spicata (L.) Greene	saltgrass
Echinochloa muricata (P. Beauv.) Fernald	rough barnyardgras
Elymus elymoides (Raf.) Swezey	squirreltail
Elymus trachycaulus (Link) Gould	slender wheatgrass
Hesperostipa comata (Trin. & Rupr.) Barkworth ssp. comata	needle and thread
Muhlenbergia asperifolia (Nees & Meyen ex Trin.) Parodi	scratchgrass
Muhlenbergia torreyi Schreb.	ring muhly
Nolina sp.Michx.	beargrass
Panicum obtusum Kunth	vine mesquite
Pascopyrum smithii (Rydb.) Á. Löve	western wheatgrass
Phragmites australis (Cav.) Trin. ex Steud.	common reed
Pleuraphis jamesii Torr.	James’ galleta
Schizachyrium scoparium (Michx.) Nash	little bluestem
Schoenoplectus americanus (Pers.) Volkart ex Schinz & R. Keller	chairmaker's bulrush
Sporobolus airoides Torr.	alkali sacaton

Scientific Name	Common Name
Sporobolus contractus Hitchc.	spike dropseed
Sporobolus cryptandrus (Torr.) A. Gray	sand dropseed
Sporobolus nealleyi Vasey	gyp dropseed
Sporobolus wrightii Munro ex Scribn.	big sacaton
Tragus berteronianus Schult.	spiked bur grass
Triglochin concinna Burtt Davy	slender arrowgrass
Cactus	
Cylindropuntia imbricata (Haw.) F.M. Knuth	tree cholla
Echinocereus coccineus Engelm. var. *coccineus*	scarlet hedgehog cactus
Echinocereus triglochidiatus Engelm.	kingcup cactus
Escobaria vivipara (Nutt.) Buxbaum	spinystar
Grusonia clavata (Engelm.) H. Rob.	club cholla
Lycium pallidum Miers.	pale desert-thorn
Opuntia phaeacantha Engelm.	tulip pricklypear
Opuntia polyacantha Haw.	plains pricklypear
Yucca angustissima Engelm. ex Trel.	narrowleaf yucca
Reptiles	
Cnemidophorus sp.	whiptail lizard
Sceloporus graciosus	sagebrush lizard
Birds	
Amphispiza belli nevadensis	sage sparrow
Buteo jamaicensis	red-tailed hawk
Callipepla gambelii	Gambel's quail
Chondestes grammacus	lark sparrow
Corvus corax	common raven
Mammals	
Antilocapra americana	pronghorn
Canis latrans	coyote
Cervus elaphus nelson	elk
Cynomys gunnisoni	Gunnison's prairie dog
Dipodomys spectabilis	bannertail kangaroo rat
Erethizon dorsatum	common porcupine
Lepus californicus	black-tailed jackrabbit
Neotoma sp.	woodrat
Sylvilagus audubonii	desert cottontail

Segment 3

Scientific Name	Common Name
Trees	
Elaeagnus angustifolia L.	Russian olive
Juniperus monosperma (Engelm.) Sarg.	oneseed juniper
Pinus edulis Engelm.	twoneedle pinyon
Tamarix ramosissima Ledeb.	saltcedar
Shrubs	
Artemisia bigelovii A. Gray	bigelow sage
Artemisia filifolia Torr.	sand sagebrush
Atriplex canescens (Pursh) Nutt.	fourwing saltbush
Atriplex confertifolia (Torr. & Frém.) Watson	shadscale saltbush
Brickellia brachyphylla (A. Gray) A. Gray	Ppumed brickellbush
Brickellia californica (Torr. & A. Gray) A. Gray	California brickellbush
Dalea formosa Torr.	featherplume
Ephedra torreyana S. Watson	Torrey's jointfir
Ericameria nauseosa (Pall. ex Pursh) G.L. Nesom & Baird	rubber rabbitbrush
Eriogonum jamesii Benth.	James' buckwheat
Eriogonum leptophyllum (Torr. & A. Gray) Woot. & Standl.	slenderleaf buckwheat
Eriogonum wrightii Torr. ex Benth.	bastardsage
Fallugia paradoxa (D. Don) Endl. ex Torr.	Apache plume
Forestiera pubescens Nutt.	stretchberry
Gutierrezia sarothrae (Pursh) Britton & Rusby	threadleaf snakeweed
Gutierrezia sarothrae (Pursh) Britton & Rusby	broom snakeweed
Krascheninnikovia lanata (Pursh) A. Meeuse & Smit	winterfat
Lycium pallidum Miers	pale desert-thorn
Mahonia haematocarpa (Woot.) Fedde	red barberry
Forbs	
Amaranthus palmeri S. Watson	carelessweed
Ambrosia artemisiifolia L.	annual ragweed
Asclepias latifolia (Torr.) Raf.	broadleaf milkweed
Asclepias sp. L.	milkweed
Asclepias verticillata L.	whorled milkweed
Astragalus sp. L.	milkvetch
Chaenactis stevioides Hook. & Arn.	Esteve's pincushion
Chaetopappa ericoides (Torr.) G.L. Nesom	rose heath
*Chamaesyce fendleri (*Torr. & A. Gray) Small	Fendler's sandmat
Chamaesyce serpyllifolia (Pers.) Small	thymeleaf sandmatt
Cirsium neomexicanum A. Gray	New Mexico thistle

Scientific Name	Common Name
Convolvulus arvensis L.	field bindweed
Cordylanthus wrightii A. Gray	Wright's bird's beak
*Croton texensis (*Klotzsch) Müll. Arg.	Texas croton
Cryptantha crassisepala (Torr. & A. Gray) Greene	thicksepal cryptantha
Cucurbita foetidissima Kunth	Missouri gourd
Dalea candida Michx. ex Willd.	white prairie clover
Descurainia pinnata (Walter) Britton ssp. *pinnata*	western tansymustard
Eriogonum rotundifolium Benth.	roundleaf buckwheat
Eriogonum sp. Michx.	buckwheat
*Glandularia gooddingii (*Briq.) Solbrig	southwestern mock vervain
Helianthella quinquenervis (Hook.) A. Gray	fivenerve helianthella
Kallstroemia parviflora J.B.S. Norton	warty caltrop
*Kochia s*p. Roth	kochia
Lappula occidentalis (S. Watson) Greene	flatspine stickseed
Machaeranthera canescens (Pursh) A. Gray	hoary tansyaster
Machaeranthera gracilis (Nutt.) Shinners	slender goldenweed
Machaeranthera canescens (Pursh) A. Gray	hoary tansyaster
Melampodium leucanthum Torr. & A. Gray	plains blackfoot
Menodora scabra A. Gray	rough menodora
Mentzelia multiflora (Nutt.) A. Gray	Adonis blazingstar
Mirabilis linearis (Pursh) Heimerl	narrowleaf four o'clock
Mirabilis multiflora (Torr.) A. Gray	Colorado four o'clock
Oenothera sp. L.	evening orimrose
Plantago patagonica Jacq.	woolly plantain
Polygala alba Nutt.	white milkwort
Portulaca oleracea L.	little hogweed
Psilostrophe tagetina (Nutt.) Greene	woolly paperflower
Psoralidium tenuiflorum (Pursh) Rydb.	slimflower scurfpea
Salsola tragus L.	prickly Russian thistle
Solanum elaeagnifolium Cav.	silverleaf nightshade
Solanum rostratum Dunal	buffalobur nightshade
Solanum sp. L.	nightshade
Sphaeralcea coccinea (Nutt.) Rydb.	scarlet globemallow
Sphaeralcea fendleri A. Gray	Fendler's globemallow
Stephanomeria pauciflora (Torr.) A. Nelson	brownplume wirelettuce
Townsendia annua Beaman	annual townsend daisy
Tragia ramosa Torr.	franched noseburn
Verbesina encelioides (Cav.) Benth. & Hook. f. ex A. Gray	golden crownbeard
Grasses	

Scientific Name	Common Name
Agropyron cristatum (L.) Gaertn.	crested wheatgrass
Andropogon sp. L.	bluestem
Aristida purpurea Nutt.	purple threeawn
Bothriochloa barbinodis (Lag.) Herter	cane bluestem
Bouteloua curtipendula (Michx.) Torr.	sideoats grama
Bouteloua eriopoda (Torr.) Torr.	black grama
Bouteloua gracilis (Willd. ex Kunth) Lag. ex Griffiths	blue grama
Bromus tectorum L.	cheatgrass
*Elymus elymoides (*Raf.) Swezey	squirreltail
Hesperostipa comata (Trin. & Rupr.) Barkworth	needle and thread
Munroa squarrosa (Nutt.) Torr.	false buffalograss
Muhlenbergia sp. Schreb.	muhly
Muhlenbergia montana (Nutt.) Hitchc.	mountain muhly
Muhlenbergia repens (J. Presl) Hitchc.	creeping muhly
Muhlenbergia torreyi (Kunth) Hitchc. ex Bush	ring muhly
Pleuraphis jamesii Torr.	James' galleta
Schizachyrium scoparium (Michx.) Nash	little bluestem
Scleropogon brevifolius Phil.	burrograss
Sorghum halepense (L.) Pers.	johnsongrass
Sporobolus airoides (Torr.) Torr.	alkali sacaton
Sporobolus cryptandrus (Torr.) A. Gray	sand dropseed
Sporobolus flexuosus (Thurb. ex Vasey) Rydb.	mesa dropseed
Cactus	
Coryphantha villarensis Backeb. [excluded]	
Cylindropuntia imbricata (Haw.)	tree cholla
Echinocereus coccineus Engelm.	scarlet hedgehog cactus
Escobaria vivipara (Nutt.) Buxbaum	spinystar
Grusonia clavata (Engelm.) H. Rob.	club cholla
Lycium pallidum Miers	pale desert-thorn
Opuntia phaeacantha Engelm.	tulip pricklypear
Opuntia polyacantha Haw.	plains pricklypear
Yucca glauca Nutt.	soapweed yucca
Birds	
Accipiter striatus	Sharp-shinned hawk
Buteo jamaicensis	red-tailed hawk
Cathartes aura	turkey vulture
Circus cyaneus	northern harrier
Corvus corax	common raven
Eremophila alpestris	horned lark
Falco mexicanus	prairie falcon

Scientific Name	Common Name
Falco sparverius	American kestrel
Hirundo rustica	barn swallow
Lanius ludovicianus	loggerhead shrike
Pooecetes gramineus	vesper sparrow
Sayornis saya	Say's phoebe
Spizella passerine	chipping sparrow
Sturnella neglecta	western meadowlark
Mammals	
Ammospermophilus leucurus	white-tailed squirrel
Antilocapra americana	pronghorn
Canis latrans	coyote
Cynomys gunnisoni	Gunnison's prairie dog
Dipodomys sp.	kangaroo rat
Lepus californicus	black-tailed jackrabbit
Sylvilagus audubonii	desert cottontail rabbit

Segment 5

Scientific Name	Common Name
Trees	
Juniperus osteosperma (Torr.) Little	Utah juniper
Shrubs	
Artemisia bigelovii A. Gray	bigelow sage
Artemisia filifolia Torr.	sand sagebrush
Atriplex canescens (Pursh) Nutt.	fourwing saltbush
Chrysothamnus pulchellus (A. Gray) Greene	southwestern rabbitbrush
Gutierrezia sarothrae (Pursh) Britton & Rusby	broom snakeweed
Forbs	
Astragalus sp. L.	milkvetch
Bassia prostrata (L.) A.J. Scott	forage kochia
Chamaesyce sp. Gray	sandmat
Cirsium undulatum (Nutt.) Spreng	wavyleaf thistle
Convolvulus arvensis L.	field bindweed
Eragrostis cilianensis (All.) Vign. ex Janchen	stinkgrass
Grindelia squarrosa (Pursh) Dunal	curlycup gumweed
Helianthella quinquenervis (Hook.) A. Gray	fivenerve helianthella
Krameria lanceolata Torr.	trailing krameria
Machaeranthera canescens (Pursh) A. Gray	hoary tansyaster
Matricaria discoidea DC.	pineapple weed
Ratibida tagetes (James) Barnhart	green prairie coneflower
Salsola tragus L.	prickly Russian thistle
Senecio flaccidus Less.	threadleaf ragwort
Solanum elaeagnifolium Cav.	silverleaf nightshade
Solanum sp. L.	nightshade
Sphaeralcea sp. A. St.-Hil.	globemallow
Stephanomeria Nutt.	wirelettuce
Grasses	
Aristida purpurea Nutt.	purple threeawn
Bouteloua curtipendula (Michx.) Torr.	sideoats grama
Bouteloua gracilis (Willd. ex Kunth) Lag. ex Griffiths	blue grama
Munroa squarrosa (Nutt.) Torr.	false buffalograss
Pleuraphis sp. Torr.	galleta grass
Cactus	
Cylindropuntia imbricata (Haw.) F.M. Knuth	tree cholla
Opuntia polyacantha Haw.	plains pricklypear
Yucca elata (Engelm.) Engelm.	soaptree yucca
Yucca glauca Nutt.	soapweed yucca
Reptiles	

Scientific Name	Common Name
Phrynosoma modestum	roundtail horned lizard
Birds	
Buteo swainsoni	Swainson's hawk
Calamospiza melanocorys	lark bunting
Callipepla squamata	scaled quail
Carpodacus mexicanus	house finch
Charadrius vociferous	killdeer
Circus cyaneus	northern harrier
Contopus sordidulus	western wood-pewee
Corvus corax	common raven
Falco sparverius	American kestrel
Lanius ludovicianus	loggerhead shrike
Spizella passerina	chipping sparrow
Sturnella neglecta	Western meadowlark
Wilsonia pusilla	Wilson’s warbler
Mammals	
Antilocapra americana	pronghorn antelope
Lepus californicus	black-tailed jackrabbit

Segment 6

Scientific Name	Common Name
Trees	
Tamarix sp. L.	tamarisk
Ulmus pumila L.	Siberian elm
Shrubs	
Acacia sp. Mill.	acacia
Artemisia filifolia Torr.	sand sagebrush
Atriplex canescens (Pursh) Nutt.	fourwing saltbrush
Chrysothamnus sp. Nutt.	rabbitbrush
Coleogyne ramosissima Torr.	blackbrush
Ericameria nauseosa (Pall. ex Pursh) Nesom & Baird	rubber rabbitbrush
Larrea tridentata (DC.) Coville	creosote bush
Prosopis glandulosa Torr.	honey mesquite
Sarcobatus vermiculatus (Hook.) Torr.	greasewood
Forbs	
Ambrosia sp. L.	ragweed
Astragalus sp. L.	milkvetch
Chaetopappa ericoides (Torr.) G.L. Nesom	rose heath
Chamaesaracha coronopus (Dunal) A. Gray	greenleaf five eyes
Chamaesyce sp.Gray	sandmat
Chenopodium sp. L.	goosefoot
Croton texensis (Klotzsch) Müll. Arg.	Texas croton
Datura wrightii Regel	sacred thorn-apple
Descurainia sp. Webb & Bethel.	tansymustard
Dimorphocarpa wislizeni (Engelm.) Rollins	tourist plant
Eriogonum sp. Nutt.	buckwheat
Lesquerella sp. S. Watson.	bladderpod
Machaeranthera sp. Nees	tansyaster
Mentzelia sp. L.	blazingstar
Portulaca oleracea L.	little hogweed
Salsola tragus L.	prickly Russian thistle
Solanum elaeagnifolium Cav.	silverleaf nightshade
Solanum sp. L.	nightshade
Sphaeralcea sp. A. St.-Hil.	globemallow
Xanthium strumarium L.	rough cocklebur
Grasses	
Aristida purpurea Nutt.	purple threeawn
Bouteloua barbata Lag.	sixweeks grama
Bouteloua gracilis (Willd. ex Kunth) Lag. ex Griffiths	blue grama

Scientific Name	Common Name
Distichlis spicata (L.) Greene	saltgrass
Hesperostipa comata (Trin. & Rupr.) Barkworth	needle and thread
Munroa squarrosa (Nutt.) Torr.	false buffalograss
Pleuraphis sp. Torr.	galleta grass
Cactus	
Cylindropuntia imbricata (Haw.) F.M. Knuth	tree cholla
Opuntia polyacantha Haw.	plains pricklypear
Yucca glauca Nutt.	soapweed yucca
Reptiles	
Crotalus oreganus	western rattlesnake
Crotaphytus collaris	collared lizard
Phrynosoma modestum	roundtail horned lizard
Birds	
Aenaida macroura	mourning dove
Amphispiza bilineata	black-throated sparrow
Buteo jamaicensis	red-tailed hawk
Buteo swainsoni	Swainson's hawk
Calamospiza melanocorys	lark bunting
Carpodacus mexicanus	house finch
Cathartes aura	turkey vulture
Charadrius vociferous	killdeer
Chondestes grammacus	lark sparrow
Chordeiles minor	common nighthawk
Circus cyaneus	northern harrier
Contopus sordidulus	Western wood-pewee
Corvus corax	common raven
Empidonax sp.	flycatcher
Eremophila alpestris	horned lark
Falco mexicanus	prairie falcon
Falco sparverius	American kestrel
Geococcyx californianus	greater roadrunner
Geothlypis trichas	common yellowthroat
Himantopus mexicanus	black-necked stilt
Hirundo rustica	barn swallow
Lanius ludovicianus	loggerhead shrike
Mimus polyglottos	Northern mockingbird
Myiarchus cinerascens	ash-throated flycatcher
Passer domesticus	house sparrow
Picoides scalaris	ladder-backed woodpecker
Piranga ludoviciana	Western tanager
Polioptila caerulea	blue-gray gnatcatcher

Scientific Name	Common Name
Salpinctes obsoletus	tock wren
Setophaga petechia	yellow warbler
Setophaga townsendi	Townsend's warbler
Spizella passerina	chipping sparrow
Streptopelia decaocto	Eurasian collared-dove
Sturnella neglecta	Western meadowlark
Tyrannus forficatus	scissor-tailed flycatcher
Tyrannus verticalis	Western kingbird
Mammals	
Antilocapra americana	pronghorn
Dipodomys spectabilis	banner-tail kangaroo rat
Lepus californicus	black-tailed jackrabbit
Odocoileus hemionus	mule deer
Spermophilus spilosoma	spotted ground squirrel

Segment 7

Scientific Name	Common Name
Trees	
Prosopis glandulosa Torr.	honey mesquite
Ulmus pumila L.	Siberian elm
Shrubs	
Atriplex canescens (Pursh) Nutt.	fourwing saltbrush
Chrysothamnus viscidiflorus (Hook.) Nutt.	yellow rabbitbrush
Ephedra torreyana S. Watson	Torrey's jointfir
Gutierrezia sarothrae (Pursh) Britton & Rusby	broom snakeweed
Forbs	
Amaranthus blitoides S. Watson	mat amaranth
Amaranthus palmeri S. Watson	carelessweed
Amaranthus retroflexus L.	redroot amaranth
Asclepias brachystephana Engelm. ex Torr.	bract milkweed
Asclepias latifolia (Torr.) Raf.	broadleaf milkweed
Brickellia sp. Elliott	brickellbush
Chaetopappa ericoides (Torr.) G.L. Nesom	rose heath
Chamaesyce sp. Gray	sandmat
Chenopodium sp. L.	goosefoot
Cirsium undulatum (Nutt.) Spreng.	wavyleaf thistle
Eriogonum sp. Nutt.	buckwheat
Grindelia squarrosa (Pursh) Dunal	curlycup gumweed
Helianthella quinquenervis (Hook.) A. Gray	fivenerve helianthella
Hoffmannseggia glauca (Ortega) Eifert	Indian rushpea
Kochia Roth	smotherweed
Krascheninnikovia lanata (Pursh) A. Meeuse & Smit	winterfat
Lygodesmia juncea (Pursh) D. Don ex Hook.	rush skeletonplant
Mentzelia sp. L.	blazingstar
Oenothera albicaulis Pursh	whitest evening primrose
Penstemon sp. Schmidel	beardtongue
Portulaca oleracea L.	little hogweed
Quincula lobata (Torr.) Raf.	Chinese lantern
Ratibida tagetes (James) Barnhart	green prairie coneflower
Salsola tragus L.	prickly Russian thistle
Solanum rostratum Dunal	buffalobur nightshade
Sphaeralcea sp. A. St.-Hil.	globemallow
Stephanomeria exigua Nutt.	small wirelettuce
Xanthium spinosum L.	spiny cocklebur
Grasses	
Aristida purpurea Nutt.	purple threeawn

Scientific Name	Common Name
Bouteloua curtipendula (Michx.) Torr.	sideoats grama
Bouteloua eriopoda (Torr.) Torr.	black grama
Hesperostipa comata (Trin. & Rupr.) Barkworth	needle and thread
Munroa squarrosa (Nutt.) Torr.	false buffalograss
Pleuraphis sp. Torr.	galleta grass
Cactus	
Echinocactus texensis Hopffer	horse crippler
Opuntia polyacantha Haw.	plains pricklypear
Yucca glauca Nutt.	soapweed yucca
Reptiles	
Crotalus viridis	western rattlesnake
Birds	
Aenaida macroura	mourning dove
Athene cunicularia	burrowing owl
Buteo swainsoni	Swainson's hawk
Calamospiza melanocorys	lark bunting
Carpodacus mexicanus	house finch
Cathartes aura	turkey vulture
Charadrius vociferous	killdeer
Circus cyaneus	northern harrier
Columba livia	rock dove
Eremophila alpestris	horned lark
Falco sparverius	American kestrel
Hirundo rustica	barn swallow
Quiscalus mexicanus	great-tailed grackle
Streptopelia decaocto	Eurasian collared-dove
Sturnella neglecta	western meadowlark
Tyrannus verticalis	western kingbird
Mammals	
Antilocapra americana	pronghorn
Canis latrans	coyote
Cynomys ludovicianus	black-tailed prairie dog
Dipodomys sp.	kangaroo rat
Lepus californicus	black-tailed jackrabbit
Sylvilagus audubonii	desert cottontail
Taxidea taxus	American badger

APPENDIX F

SPECIAL STATUS SPECIES OF NEW MEXICO

Special Status Species with the Potential to Occur in the WEP III Project Area

Common Name (*Scientific Name*)	Habitat	Potential to Occur in the Project Area	Status	Area/Segment
Acoma fleabane (*Erigeron acomanus*)	Sandy slopes and benches beneath sandstone cliffs of the Entrada Sandstone Formation in piñon-juniper woodland; 2,100-2,170 m (6,900-7,100 ft).	No	Federal: Species of Concern BLM: Sensitive	MK
Alamo beardtongue (*Penstemon alamosensis*)	Sheltered rocky areas, canyon sides and bottoms, on limestone; 1,300-1,620 m (4,300-5,300 ft).	No	Federal: Species of Concern BLM: Sensitive	LI
Aztec gilia (*Aliciella formosa*)	Desert scrub communities on the Nacimiento formation; 5000-6400 ft. Blooms April-May.	Yes, documented.	Federal: Species of Concern NM State: Endangered BLM Sensitive Navajo Nation: Candidate (Group 4)	SJ
Bisti fleabane (*Erigeron bistiensis*)	Desert Scrub Community. White to tan fine-textured sand originating from the Ojo Alamo Sandstone Formation at 6,400 feet elevation. Once known from a single location in the Hunter Wash region near the Bisti-De Nazin Wilderness Area, new locations include areas around La Plata, Aztec, and Bloomfield, New Mexico.	No	Federal: Species of Concern	SJ
Brack's fishhook cactus (*Sclerocactus cloveriae var. brackii*)	Desert scrub communities on the Nacimiento formation; 5000-6400 ft. Blooms in May.	Yes, documented.	Federal: Species of Concern NM State: Endangered FS: Sensitive BLM: Sensitive Navajo Nation: Candidate (Group 4)	SJ
Mesa Verde cactus (*Sclerocactus mesae-verdae*)	Sparsely vegetated low rolling clay hills formed from the Mancos or Fruitland shale formations at 1,500-1,700 m (4,900-5,500 ft). The soils are highly alkaline, gypsiferous, and have shrink-swell potentials that make them harsh sites for plant growth. Commonly associated plants include Atriplex corrugata (mat saltbush), *A. confertifolia* (shadscale), *Frankenia jamesii* (frankenia), and *Opuntia polyacantha* (prickly pear cactus).	No	Federal: Threatened State: Endangered BLM: (Special Status)	SJ

Common Name (*Scientific Name*)	Habitat	Potential to Occur in the Project Area	Status	Area/Segment
Goodding's onion (*Allium gooddingii*)	Generally in spruce-fir forests and mixed conifer forests. In moist, shady canyon bottoms and north-facing slopes, often along streams. (6,400-9,4,00 ft).	No	Federal: Species of Concern State: Endangered	LI
Gray sibara (*Sibara grisea*)	In crevices and at the bases of limestone cliffs in interior chaparral and piñon-juniper woodland communities at 1,350-1,800 m (4,500-6,000 ft)	No	BLM: Sensitive	CH
Gypsum Townsend's aster (*Townsendia gypsophila*)	New Mexico, Sandoval County (extending 30 km north from White Mesa near San Ysidro in a narrow band along the western margin of the Nacimiento Mountains stopping short of Cuba).	No	Federal: Species of Concern BLM: Sensitive	SA
Knight's milkvetch (*Astragalus knightii*)	Rimrock ledges of Dakota Formation sandstone in juniper savannah and grassland; 1,750-1,800 m (5,700-5,900 ft).	No	Federal: Species of Concern BLM: Sensitive	SA
Knowlton cactus (*Pediocactus knowltonii)*	On rolling, gravelly hills in a piñon-juniper-sagebrush community at about 1,900 m (6,200-6,300 ft).	No	Federal: Endangered BLM: Endangered	SJ
Kuenzler's hedgehog cactus (*Echinocereus fendleri var. kuenzleri*)	Gravelly to rocky slopes and benches on limestone or limy sandstone in grasslands, oak woodlands, and pinon-juniper woodlands; 5200-6600 ft. Blooms from May-June.	No	NM State: Endangered Federal: Endangered BLM: Endangered	CH, LI
Large yellow lady's-slipper (*Cypripedium calceolus* var. *pubescens*)	Rocky wooded hillsides on north or east facing slopes, wooded loess river bluffs, and moist creeksides or swales in spruce zones. Soils are sandy loams to loams.	No	State: Endangered	SJ, SF
Mancos milk-vetch (*Astragalus humillimus*)	Cracks or eroded depressions on sandstone rimrock ledges and mesa tops in Point Lookout sandstone, which is a Cretaceous sandstone that is part of the larger Mesa Verde stratigraphic series; 1,500-1,800 m (5,000-6,000 ft).	No	Federal: Endangered BLM: Endangered State: Endangered	SJ
Mancos saltplant (*Atriplex pleiantha*)	Desert badlands of Colorado Plateau on saline clay soils of the Mancos and Fruitland shale formations; 1,500-1,650 m (5,000-5,500 ft.).	No	BLM: Sensitive	SJ
Parish's alkali grass	Great Basin Desert and Chihuahuan Desert Scrub	No	Federal: Species of Concern	MK, SA, SJ

Common Name (*Scientific Name*)	Habitat	Potential to Occur in the Project Area	Status	Area/Segment
(*Puccinellia parishii*)	communities. Occurs in alkaline seep areas and cienegas. In marshy ground between 5,000-8,000 feet.		BLM: Sensitive State: Endangered	
Pecos sunflower (*Helianthus paradoxus*)	Saturated saline soils of desert wetlands; cienegas, true wetland species; 3300-6600 ft. Blooms from August-October.	No	Federal: Threatened State: Endangered BLM: (Special Status)	CH, GU
Ripley's milkvetch (*Astragalus ripleyi*)	Volcanic substrates in mixed-canopy, ponderosa pine-Arizona fescue savannah; or along the edges of mixed coniferous woodlands where Arizona fescue is dominant, known on Rio Grande NF (5,450 to 9,360 ft).	No	BLM: Sensitive	RA
San Juan milkweed (*Asclepias sanjuanensis*)	Sandy loam soils, usually in disturbed sites, in juniper savanna and Great Basin desert scrub; 1,500-1,700 m (5,000-5,500 ft).	Yes	BLM: Sensitive Navajo Nation: Candidate (Group 4)	SJ
Santa Fe cholla (*Opuntia viridiflora*)	Great Basin conifer woodland. Short stature trees of piñon and juniper between elevations of 5,500 to 7,500 feet. Known Distribution: Santa Fe County	No	Federal: Species of Concern BLM: Sensitive State: Endangered	SF
Scheer's pincushion cactus (*Coryphantha scheeri*)	Favors nearly level areas in desert grassland and Chihuahuan desert scrub, usually on gravelly or silty soils, occasionally on rocky benches or bajadas on limestone or gypsum; 1,000-1,100 m (3,300-3,600 ft).	No	NM State: Endangered	CH
Snowball cactus (*Pediocactus simpsonii* var. *minor*)	Rocky soils of high valleys and mountainsides in grasslands and at edges of forests near timberline.	No	NM State: Endangered	BR, RA
Tufted sand verbena (*Abronia bigelovii*)	Hills and ridges of gypsum in the Todilto Formation, 1,750-2,250 m (5,700-7,400 ft).	No	BLM: Sensitive	RA, SA, SF
Wright's marsh thistle *(Cirsium wrightii*)	Wet, alkaline soils in seeps and marshy edges of ponds and streams; 3450-8500 ft. Blooms August-September	No	Federal: Candidate State: Endangered	CH, GU
Zuni fleabane (*Erigeron rhizomatus*)	Nearly barren detrital clay hillsides with soils derived from shales of the Chinle or Baca formations (often seleniferous); most often on north or east-facing slopes in open piñon-juniper woodlands at 2,200-2,400 m (7,300-8,000 ft).	No	Federal: Threatened State: Endangered BLM: (Special Status)	MK, SJ

Mollusks, Crust, Invertebrates

Common Name (*Scientific Name*)	Habitat	Potential to Occur in the Project Area	Status	Area/Segment
Koster's springsnail (*Juturnia kosteri*)	Koster's spring snail is a totally aquatic species that occurs in slow-velocity water in springs and streams. It occupies mainly soft substrates, such as mud and organic debris.	No	Federal: Critical Hab. Designated (NM) Federal: Endangered State NM: Endangered	CH
Lilljeborg's peaclam (*Pisidium lilljeborgi*)	The New Mexico population of the species occurs in cold, alpine Nambe Lake, which is located in a glacial cirque. The surrounding habitats include rocky talus, stands of Engelmann spruce (Picea engelmannii) and subalpine fir (Abies lasiocarpa), and grass-sedge-forb communities.	No	State NM: Threatened	SF
Noel's amphipod (*Gammarus desperatus*)	Completely aquatic and requires perennial flowing water	No	Federal: Critical hab. Designated Federal: Endangered State NM: Endangered BLM: Sensitive	CH
Pecos assiminea snail (*Assiminea pecos*)	Assimineas are essentially terrestrial snails, living on moist substrates within a few inches of the water. They select a humid microclimate, such as within mats of sedges or beneath other vegetation along muddy shores next to flowing water.	No	Federal: Critical Hab. Designated (NM) Federal: Endangered State NM: Endangered	CH
Roswell springsnail (*Pyrgulopsis roswellensis*)	It is most common on limestone rubble in swift water emitting from spring. However, the species can survive in tiny seepage areas, as long as flows are perennial.	No	Federal: Critical Hab. Designated (NM) Federal: Endangered State NM: Endangered	CH
Texas hornshell (*Popenaias popeii)*	Appears to be confined to the Pecos River near Carlsbad, has been documented historically in the North Spring River (Chaves Co.) and in the Black River (Eddy Co.)	No	Federal: Candidate State NM: Endangered	CH
Wrinkled marshsnail (*Stagnicola caperata*)	Pond snail occurs in such habitats as vegetated ditches, marshes, streams, and ponds, typically that are seasonally dry.	No	State NM: Endangered	SA

Fish

Common Name (*Scientific Name*)	Habitat	Potential to Occur in the Project Area	Status	Area/Segment
Bigscale logperch (*Percina macrolepida*)	This species occurs in deep rivers, preferably with a strong current and rubble-gravel substrate; however, it is also found in rivers with nearly imperceptible flow and in impoundments	Yes	State NM: Threatened	CH, DB, GU
Bluehead sucker (*Catostomus discobolus discobolus*)	This sucker inhabits a variety of lotic habitats, featuring laminar to slightly turbulent flows. In general, the available habitat is limited, most of it in New Mexico being in headwater areas above various diversions and impoundments.	No	Navajo Nation: Group 4	RA, SJ
Colorado pikeminnow (*Ptychocheilus lucius*)	This species is characterized as a "big river" fish, with adults occurring in turbid, deep, and strong-flowing water.	No	Federal: Critical Habitat Designated (NM) Federal: Endangered Navajo Nation: Endangered (Group 2) State NM: Endangered	SJ
Flannelmouth sucker (*Catostomus latipinnis*)	The flannelmouth sucker is found in a wide variety of habitats, ranging from riffles to backwater areas, in larger rivers and streams	No	Navajo Nation: Group 4	RA, SJ
Gray redhorse (*Moxostoma congestum*)	The species typically dwells in low gradient streams, with warm, usually clear water. Adults most often occupy medium to large pools, with cobble, gravel, silt, or sand bottoms.	Yes	Federal: Species of Concern State NM: Endangered	CH
Greenthroat darter (*Etheostoma lepidum*)	The greenthroat darter inhabits swift-flowing streams and springs, especially vegetated riffle areas with gravel and rubble substrates. It also inhabits several types of clear ponded-water habitats including sinkholes.	No	Federal: Species of Concern State NM: Threatened	CH
Headwater catfish (*Ictalurus lupus*)	Occupies clear temperate waters generally with a moderate gradient. Persists in headwater streams, or in fluctuating tailwaters of dams in the Pecos.	No	Federal: Species of Concern BLM: Sensitive	CH,DB
Mexican Tetra (*Astyanax*	This species occupies a variety of habitats, but it tends to school in pools and below swift areas in eddies	No	State NM: Threatened	CH, GU

Common Name (*Scientific Name*)	Habitat	Potential to Occur in the Project Area	Status	Area/Segment
mexicanus)				
Pecos bluntnose shiner (*Notropis simus pecosensis*)	In the Pecos River, the bluntnose shiner ranges over most of the available habitats in streams . However, the species is most common in main channel areas, with low-velocity water, depths of 17-31 cm, and a sandy substrate	Yes	Federal: Critical Habitat Designated (NM) Federal: Threatened State NM: Endangered	CH, DB
Pecos gambusia (*Gambusia nobilis*)	These fish inhabit primarily ponds and sink holes	No	Federal: Endangered State NM: Endangered	CH
Pecos pupfish (*Cyprinodon pecosensis*)	The Pecos pupfish is most commonly found and apparently thrives in saline bodies of water that support few other fish species. It occasionally occupies fresher waters, but it is not common in such habitats.	No	Federal: Species of Concern State NM: Threatened	CH
Razorback sucker (*Xyrauchen texanus*)	This species is found in strong currents of large rivers and in backwaters 1.2 - 3.0 m deep as well as in reservoirs.	No	Federal: Critical Hab. Designated (NM) Federal: Endangered	SJ
Rio Grande cutthroat trout (*Oncorhynchus clarki virginalis*)	Cutthroat trout prefer clear, cold streams and lakes.	No	Federal: Candidate	RA, SA
Rio grande shiner (*Notropis jemezanus*)	The Rio Grande shiner inhabits large open rivers with laminar flows and a minimum of aquatic vegetation and larger streams with gravel, sand or rubble bottoms which are sometimes overlain with silt.	No	Federal: Species of Concern BLM: Sensitive	CH, DB
Rio Grande silvery minnow (*Hybognathus amarus*)	In New Mexico, both the Rio Grande and Pecos River are typical of plains lotic ecosystems characterized by flashy or unpredictable flow.	No	Federal: Critical Habitat Designated (NM) Federal: Endangered State NM: Endangered	BR, SA
Roundtail chub (*Gila robusta*)	Roundtail chub occury cool to warm water, mid-elevation streams and rivers where typical adult microhabitat consists of pools up to 2.0 meters deep adjacent tp swifter riffles and runs.	No	Federal: Species of Concern Navajo Nation: Endangered (Group 2) State NM: Endangered BLM: Sensitive	SJ
Suckermouth minnow	The species inhabits mainly sand, gravel, and rubble-bottomed riffles in small to moderate-sized streams.	No	State NM: Threatened	CH, DB, GU

Common Name (*Scientific Name*)	Habitat	Potential to Occur in the Project Area	Status	Area/Segment
(*Phenacobius mirabilis*)				
White sands pupfish (*Cyprinodon tularosa*)	The White Sands pupfish occupies shallow pools and calm spring runs, which are characterized by high fluctuations in daily temperatures, very saline water, and substrates of silt, sand, and gravel	No	Federal: Species of Concern State NM: Threatened	LI
Zuni bluehead sucker (*Catostomus discobolus yarrowi*)	Mountain suckers generally occur in flowing pools and swift areas and streams.	No	Federal: Candidate BLM Sensitive: NM State Office State NM: Endangered USFS Sensitive: Region 3 (NM,AZ)	MK

Amphibians

Common Name (*Scientific Name*)	Habitat	Potential to Occur in the Project Area	Status	Area/Segment
Boreal toad (*Anaxyrus boreas*)	Found at high elevations and usually associated with beaver ponds	No	Federal: Species of Concern State NM: Endangered	RA
Jemez Mountains salamander (*Plethodon neomexicanus*)	Restricted to coniferous forests dominated by Douglas fir, spruce, ponderosa pine and white fir above 7,200 feet in elevation. Requires subterranean mesic environments.	No	Federal: Proposed Endangered with Proposed Critical Habitat State NM: Endangered BLM: Sensitive	RA, SA
Northern leopard frog (*Rana pipiens*)	A variety of aquatic habitats: marshes, pond, steams, irrigation ditches, wet meadows, and shallow portions of reservoirs.	No	Navajo Nation: Threatened (Group 3)	BR, MK, RA, SA, SJ, SF, TR
Sacramento Mountain salamander (*Aneides hardii*)	Occurs on wooded sites characterized by conifers that include Douglas fir , true firs, spruces and some pines.	No	Federal: Species of Concern State NM: Threatened BLM: Sensitive	LI

Reptiles

Common Name (*Scientific Name*)	Habitat	Potential to Occur in the Project Area	Status	Area/Segment
Sand Dune lizard (*Sceloporus arenicolus*)	Prefers sand dune habitat with shinnery oak, and is limited to this habitat in Chavez, Eddy, Roosevelt, and Lea Counties.	No	Federal: Species of Concern State NM: Endangered BLM: Sensitive	CH, LE
Texas Horned lizard (*Phrynosoma cornutum*)	This lizard inhabits flat, open, generally dry country with little plant cover, except for bunchgrass and cactus. Strictly terrestrial, this lizard can bury itself in loose soil that is sandy, loamy, or rocky. It seeks shelter under rocks.	Yes	BLM: Sensitive	CH, DB, GU, LE, LI, SF, TR
Western ribbon snake (*Thamnophis proximus diabolicus*)	Habitat includes streams, ponds, marshes, and even some stocktanks. Adjacent vegetation consists of riparian and emergent aquatic types, including willows, cattails, and bulrushes.	No	State NM: Threatened	CH

Birds

Common Name (*Scientific Name*)	Habitat	Potential to Occur in the Project Area	Status	Area/Segment
American dipper (*Cinclus mexicanus*)	Occurs from Arizona and New Mexico northward to Alaska. Found along clear, unpolluted rushing mountain streams, as high as timberline. Generally non-migratory, but may descend to lower elevations in winter.	No	Navajo Nation: Threatened (Group 3)	SA, SJ,
Northern aplomado falcon (*Falco femoralis septentrionalis*)	The habitat of the northern aplamado falcon consists of grassy plains interspersed with mesquite, cactus, and yucca.	Yes	Federal: Nonessential Experimental Population State NM: Endangered BLM: Sensitive	BR, LE
Arctic peregrine falcon (*Falco peregrinus tundrius*)	Found in Douglas fir, Hemlock-Sitka spruce, redwood, ponderosa pine, larch/white pine, lodgepole pine, fir-spruce, aspen (hardwoods), chaparral, and pinyon-juniper forest types.	No	Federal: Species of Concern State NM: Threatened	BR, CH, DB, GU, LE, LI, MK, RA, SA, SJ, SF, TR
Baird's sparrow (*Ammodramus bairdii*)	In New Mexico it has been found in a variety of habitats, ranging from desert grasslands in the south to prairies in the northeast and mountain meadows in the San Juan and Sangre de Cristo mountains.	Yes	Federal: Species of Concern State NM: Threatened BLM: Sensitive	BR, CH, DB, GU, LE, LI, RA, SA, SJ, SF, TR
Bald eagle (*Haliaeetus leucocephalus alascanus*)	Bald eagles seem to prefer timbered areas along coasts, large lakes, and rivers, but they also occupy other areas.	No	State NM: Threatened BLM: Sensitive Navajo Nation: Threatened (Group 3) Pueblo Tribes: Cultural Importance	BR, CH, DB, GU, LE, LI, MK, RA, SA, SJ, SF, TR
Bell's vireo (*Vireo bellii arizonae*)	Found in the southernmost portion of NM, where it summers primarily in the Gila Valley, Guadalupe Canyon, and the lower Rio Grande and Pecos valley. Prefers dense, low, shrubby vegetation in riparian areas.	Yes	Federal: Species of Concern State NM: Threatened	BR, CH, DB, LE
Belted kingfisher (*Megaceryle alcyon*)	Nests in burrows in earthen banks usually near major water source with adequate prey supply. In NM the Chuska Mountains.	No	Navajo Nation: Candidate (Group 4)	BR, CH, DB, GU, LE, LI, MK, RA, SA, SJ, SF
Black tern (*Chlidonias niger*	Breeds in vegetated marshes with some open water.	No	Federal: Species of Concern BLM: Sensitive	BR, CH, GU, MK, RA, SJ, TR

Common Name (*Scientific Name*)	Habitat	Potential to Occur in the Project Area	Status	Area/Segment
surinamensis)				
Boreal owl (*Aegolius funereus*)	They have been reported in Douglas fir, lodgepole pine, fir-spruce, aspen forest type. Primarily a bird of high elevation, mature and old-growth spruce-fir forests	No	State NM: Threatened	RA, SF,
Broad-billed hummingbird (*Cynanthus latirostris magicus*)	A widespread Mexican species with it northern 10arolina10 limit in the borderlands of the southwestern U.S. Found in low to mid-elevation riparian woodlands. Regular summer resident in Guadalupe Canyon, Hidalgo County.	No	State NM: Threatened	BR, LE, LI, SA, SJ,
Brown pelican (*Pelecanus occidentalis carolinensis*)	Occasional visitors inland in NM; occur during all season, but they are most frequent summer throughout fall.	No	State NM: Endangered	BR, CH, DB, LI, RA, SA, SJ
Burrowing owl (*Athene cunicularia hypugaea*)	Nests in ground burrows (often deserted prairie dog burrows) in dry open grasslands or desert scrub.	Yes	Federal: Species of Concern BLM: Sensitive Navajo Nation: Candidate (Group 4)	BR, CH, DB, GU, LE, LI, MK, RA, SA, SJ, SF, TR
Clark's grebe (*Aechmophorus 10arolin*)	Clark's grebes require large, secluded marshes for nesting	No	Navajo Nation: Candidate (Group 4)	BR, RA, SJ, SF
Common black-hawk (*Buteogallus anthracinus anthracinus*)	It is characteristically found in the Southwest in cottonwood and other woodlands along permanent lowland streams.	No	Federal: Species of Concern State NM: Threatened	BR, CH, GU, LI, RA, SA, SJ
Common ground-dove (*Columbina 10arolina10 pallescens*)	This minute dove is typically found in agricultural and undeveloped areas at elevations below 5,400 ft, usually occurring as individuals, pairs, or family groups	Yes	State NM: Endangered	CH
Costa's hummingbird (*Calypte costae*)	Costa's hummingbirds inhabit Sonoran Desert Scrub in canyons at lower elevations (2,800 – 5,500 ft).	No	State NM: Threatened	MK, SA

Common Name (*Scientific Name*)	Habitat	Potential to Occur in the Project Area	Status	Area/Segment
Ferruginous hawk (*Buteo regalis*)	Nests in badlands, flat or rolling grasslands, and desert scrub	Yes	BLM: Sensitive	BR, CH, DB, GU, LE, LI, MK, RA, SA, SJ, SF, TR
Golden eagle (*Aquila chrysaetos*)	Golden eagles are found nesting on cliffs near open habitats in a variety of habitats within the western United States.	Yes	BLM: Sensitive Navajo Nation: Threatened (Group 3)	BR, CH, DB, GU, LI, MK, RA, SA, SJ, SF
Gray vireo (*Vireo vicinior*)	Inhabits mixed piñon-juniper and oak scrub communities and arid chaparral in hot climates.	Yes	State NM: Threatened	BR, CH, GU, LI, MK, RA, SA, SJ, SF
Least tern (*Sterna antillarum athalassos*)	In New Mexico, alkali flats are selected as nesting areas. Least terns are colonial nesters that prefer a flat, sandy substrate essentially devoid of vegetation, on which they place their nest scrapes.	No	Federal: Endangered State NM: Endangered	CH, DB, LE, MK, RA, SJ, SF
Lesser prairie-chicken (*Tympanuchus pallidicinctus*)	Found in the shrub-dominated high plains bluestem habitat type in mixed stands of tall grasses and shinnery oak.	No	Federal: Candidate State NM: Provides full protection State NM: Sensitive taxa (informal) BLM: Sensitive	CH, DB, GU, LE
Loggerhead shrike (*Lanius ludovicianus excubitorides*)	They are found in Douglas fir, ponderosa pine, aspen (hardwoods), chaparral, and piñon-juniper forest types.	Yes	BLM: Sensitive	BR, CH, DB, GU, LE, LI, MK, RA, SA, SJ, SF, TR
Mexican spotted owl (*Strix occidentalis lucida*)	Nests in caves, cliffs, or trees in steep-walled canyons of mixed conifer forests.	No	Federal: Critical Habitat. Designated (NM) Federal: Threatened Navajo Nation: Threatened (Group 3)	BR, CH, LI, MK, RA, SA, SJ, SF, TR
Mountain plover (*Charadrius montanus*)	Breeds in flat, open grasslands; often associated with prairie dog towns and intensive grazing.	Yes	BLM: Special Management Navajo Nation: Candidate (Group 4)	BR, CH, DB, GU, LE, LI, MK, RA, SA, SJ, SF, TR
Neotropic cormorant (*Phalacrocorax brasilianus*)	In New Mexico, cormorants are generally found on larger bodies of water such as reservoirs, where they prey on fish. They nest near or over water, in vegetation such as dead snags or trees.	No	State NM: Threatened	BR, CH, DB, GU, SA
Northern goshawk	Inhabits mature coniferous forests, often on	No	Federal: Species of Concern	BR, CH, LE, LI, MK,

Common Name (*Scientific Name*)	Habitat	Potential to Occur in the Project Area	Status	Area/Segment
(*Accipiter gentilis atricapillus*)	moderate slopes, especially at mid- to high elevations.		BLM: Sensitive	RA, SA, SJ, SF, TR
Peregrine falcon (*Falco peregrinus anatum*)	In New Mexico, the breeding territories of peregrine falcons center on cliffs that are in wooded/forested habitats, with large "gulfs" of air nearby in which these predators can forage.	No	Federal: Species of Concern State NM: Threatened BLM: Sensitive Navajo Nation: Threatened (Group 3)	BR, CH, DB, GU, LE, LI, MK, RA, SA, SJ, SF, TR
Piping plover (*Charadrius melodus circumcinctus*)	Occurs on sandflats or along bare shorelines of rivers, lakes, or coasts.	No	Federal: Threatened State NM: Threatened	CH, GU
Prairie falcon (*Falco mexicanus*)	Arid, open regions of grassland or scrub vegetation with cliff formations that are at least 30 feet high. Breeding cliffs are sometimes in semi-open regions with scattered conifer trees and occasionally dense woodlands.	Yes	BLM: Sensitive	BR, CH, DB, GU, LE, LI, MK, RA, SA, SJ, SF, TR
Sora (*Porzana 12arolina*)	The sora is a bird of the wet, soggy marshes. Although freshwater marshes are their preferred habitat, they also use brackish and salt marshes, particularly during migration.	No	Navajo Nation: Candidate (Group 4)	BR, CH, MK, RA, SA, SJ, SF
Southwestern willow flycatcher (*Empidonax traillii extimus*)	Breeds in dense, shrubby riparian habitats, usually in close proximity to surface water or saturated soil. Nesting habitat typically occurs in linear riparian zones greater than 30 ft wide and 2 acres. Occurring widely in New Mexico during migration.	Yes	Federal: Critical Habitat Designated (NM) Federal: Endangered Navajo Nation: Endangered (Group 2) State NM: Endangered	BR, CH, DB, GU, LI, MK, RA, SA, SJ, SF, TR
Sprague's pipit (*Anthus spragueii*)	Sprague's pipits inhabit grasslands at lower elevations (2800-5500 ft).	Yes	Federal: Candidate	BR, CH, DB, GU, LE, SJ, TR
Violet-crowned hummingbird (*Amazilia violiceps ellioti*)	Violet-crowned hummingbirds inhabit riparian woodlands at lower (2,800 – 5,500 ft) elevations	No	State NM: Threatened	SF
White-eared hummingbird	Found in montane forests most commonly in pin and pine-oak zones.	No	State NM: Threatened	BR

Common Name (*Scientific Name*)	Habitat	Potential to Occur in the Project Area	Status	Area/Segment
(*Hylocharis leucotis borealis*)				
White-faced ibis (*Plegadis chihi*)	Associated with shoreline and marsh habitats that bordered open water.	No	BLM: Sensitive	BR, CH, DB, GU, LE, LI, MK, RA, SA, SJ, SF, TR
White-tailed ptarmigan (*Lagopus leucura altipetens*)	White-tailed ptarmigan inhabit alpine tundra and timberline habitats, which in New Mexico are mainly above 10,500 ft.	No	State NM: Endangered	RA, SF
Yellow-billed cuckoo (*Coccyzus americanus occidentalis*)	Breeds in riparian woodlands with dense, understory vegetation.	No	Federal: Candidate Navajo Nation: Candidate (Group 4)	BR, CH, DB, GU, LE, LI, MK, RA, SA, SJ, SF, TR

Mammals

Common Name (*Scientific Name*)	Habitat	Potential to Occur in the Project Area	Status	Area/Segment
American marten (*Martes americana origenes*)	Inhabit forests of spruce, fir, Douglas-fir, and associated trees in northern New Mexico.	No	State NM: Threatened	RA, SA, SF
American pika (*Ochotona princeps incana*)	Pikas live from above timberline down into subalpine forest to elevations as low as about 8,500 feet) where suitable rock slides exist	No	State NM: Species of Concern	RA, SF
Black-footed ferret (*Mustela nigripes)*	Open grasslands with year-round prairie dog colonies of 200 acres or greater.	Yes	Federal: Endangered Navajo Nation: Endangered (Group 2)	BR, CH, DB, GU, LE, LI, MK, RA, SA, SJ, SF, TR
Black-tailed prairie dog (*Cynomys ludovicianus arizonensis*)	Black-tailed prairie dogs are inhabitants of shortgrass plains.	Yes	BLM: Sensitive	CH, LE, LI
Black-tailed prairie dog (*Cynomys ludovicianus ludovicianus*)	Prairie dogs live in shortgrass and midgrass prairies and grass-shrub habitats	Yes	Federal: Species of Concern	CH, DB, GU, LE, LI
Canada lynx (*Lynx canadensis*)	Associated with the southern boreal forest, comprising of subalpine coniferous forest.	No	Federal: Candidate	MK, RA, SJ
Goat peak pika (*Ochotona princeps nigrescens*)	Confined to talus slides and boulder fields in alpine and sub-alpine areas.	No	Federal: Species of Concern BLM: Sensitive	RA, SA
Gray-footed chipmunk (*Neotamias canipes sacramentoensis*)	A forest-dwelling chipmunk. Occurs in dense stands of mixed timber and on brushy hillsides, particularly where crevices in rocks offer retreats	No	BLM: Sensitive	LI
Gray-footed chipmunk (*Neotamias canipes canipes*)	In southcentral New Mexico, occurs in a variety of habitats. It ranges upward from pinyon-juniper to spruce-fir communities. It is most numerous in yellow pine and Douglas fir communities.	No	BLM: Sensitive	LI
Gunnison's prairie dog (montane	A mixed shrub habitat type at lower elevations below the mesas (elevation greater than 6,700 ft.	No	Federal: Candidate	BR, MK, RA, SA, SJ, SF, TR

Common Name (*Scientific Name*)	Habitat	Potential to Occur in the Project Area	Status	Area/Segment
populations) (*Cynomys gunnisoni gunnisoni*)				
Gunnison's prairie dog (prairie populations) (*Cynomys gunnisoni gunnisoni*)	A mixed shrub habitat type at lower elevations below the mesas (elevation less than 6,700 ft.	Yes	BLM: Sensitive	BR, MK, RA, SA, SJ, SF, TR
Kit fox (*Vulpes macrotis*)	Dens excavated in desert scrub or desert grasslands with soft, alluvial or silty clay soils.	Yes	Navajo Nation: Candidate (Group 4)	SJ, SA
Least shrew (*Cryptotis parva parva*)	Confined to mesic habitats in New Mexico, and throughout its range it frequents grassy or marshy situations.	No	State NM: Threatened	CH
Meadow jumping mouse (*Zapus hudsonius luteus*)	They are usually found in marshes, moist meadows and riparian habitats.	No	Federal: Candidate State NM: Endangered BLM: Sensitive	BR, RA, SA
Oscura Mountains Colorado chipmunk (*Neotamias quadrivittatus oscuraensis*)	Ponderosa forest but may also be abundant in mixed coniferous forest and woodland. At lower elevations, in scattered piñon- juniper woodland, especially if rock outcrops are available.	No	State NM: Threatened BLM: Sensitive	LI
Pale big-Eared Townsend's bat (*Corynorhinus townsendii pallescens*)	Semi-desert shrublands, piñon-juniper woodlands, and open montane forests; caves, mines, and rocky outcrops very important component of habitat.	Yes	Federal: Species of Concern BLM: Sensitive	BR, CH, LI, RA, SA, SJ, SF
Pecos River muskrat (*Ondatra zibethicus ripensis*)	Muskrats are semiaquatic animals occupying practically all aquatic habitats, from cat-tail marshes and ponds to lakes and rivers.	Yes	Federal: Species of Concern BLM: Sensitive	CH, GU, LI
Penasco least chipmunk (*Neotamias minimus atristriatus*)	The Penasco subspecies of the least chipmunk occurs in the Sacramento Mountains, primarily along such canyons, in and near ponderosa pine.	No	Federal: Species of Concern State NM: Endangered	LI
Red fox	Found in open woodlands, pasturelands, riparian,	Yes	State NM: Species of Concern	BR, CH, DB, GU, LE,

Common Name (*Scientific Name*)	Habitat	Potential to Occur in the Project Area	Status	Area/Segment
(*Vulpes vulpes fulva)*	and agricultural lands.			LI, MK, RA, SA, SJ, SF, TR
Red squirrel (*Tamiasciurus hudsonicus lychnuchus*)	Subalpine coniferous forest is the biotic zone with which the red squirrel is particularly associated in New Mexico.	No	State NM: Species of Concern	LI
Ringtail (*Bassariscus astutus arizonensis*)	Ringtail cats are found primarily in montane habitats, but are also found in lowlands in rough, rocky country.	No	State NM: Species of Concern	BR, CH, DB, GU, LE, LI, MK, RA, SA, SJ, SF, TR
Rocky Mountain bighorn sheep (*Ovis canadensis canadensis*)	Tundra is the biotic zone with which the bighorn sheep (O. canadensis) is particularly associated in New Mexico	No	State NM: Species of Concern	BR, RA, SF, TR
Sandhill white-tailed deer (*Odocoileus virginianus texana*)	Found most often in riparian communities on the eastern sides of the mountains, as well as in the sandhills east of Roswell.	No	State NM: Species of Concern	CH, LE
Spotted bat (*Euderma maculatum*)	Found in ponderosa pine of montane forests, pinon-juniper woodlands, and open semidesert shrublands. Rocky cliffs are necessary to provide suitable cracks and crevices for roosting, as is access to water.	No	State NM: Threatened BLM: Sensitive	BR, RA, SA, SJ
Swift fox (*Vulpes velox velox*)	Swift fox inhabit shortgrass, midgrass and mixed prairies but they have also adapted to overgrazed pastures, plowed fields and fence rows	Yes	Federal: Species of Concern	CH, DB, GU, LE
Yellow-bellied marmot (*Marmota flaviventris luteola*)	General indicator of rocky, mesic habitat, usually of higher elevations. Rocky situations; talus slopes; valleys and foothills to 11,000 ft elevations	No	State NM: Species of Concern	RA, SJ, SF

APPENDIX G

NAVAJO BIOLOGICAL EVALUATION

Ecosphere
Environmental Services

Biological Evaluation
Enterprise Products, LLC
Proposed Western Expansion Project III

Prepared for:

Enterprise Products, LLC
Farmington, New Mexico

February 2011

Durango, CO
Cortez, CO
Pagosa Springs, CO
Farmington, NM

TABLE OF CONTENTS

LIST OF APPENDICES

LIST OF TABLES

LIST OF FIGURES

ACRONYMS

BE	Biological Evaluation
BIA	Bureau of Indian Affairs
BLM	Bureau of Land Management
cm	centimeters
EA	Environmental Assessment
Ecosphere	Ecosphere Environmental Services
Enterprise	Enterprise Products, LLC
FFO	Farmington Field Office
MBTA	Migratory Bird Treaty Act
mph	miles per hour
NESL	Navajo Endangered Species List
NNDFW	Navajo Nation Department of Fish and Wildlife
NNHP	Navajo Natural Heritage Program
ROW	right-of-way
TES	Threatened and Endangered Species
TUA	Temporary Use Area
U.S.	United States
USGS	U.S. Geological Survey
WEP III	Western Expansion Project III
WUS	Waters of the United States

1. INTRODUCTION

Enterprise Products, LLC (Enterprise) retained Ecosphere Environmental Services (Ecosphere) to conduct a Threatened and Endangered Species (TES) survey and prepare a Biological Evaluation (BE) for the proposed Western Expansion Project III (WEP III). The proposed pipeline would be a total of approximately 247 miles long consisting of six proposed loop segments (Segments 1, 2, 3, 5, 6, and 7). Initially, Enterprise had contemplated an additional segment (Segment 4) but has since removed that segment from consideration. Portions of the proposed WEP III would be constructed across Navajo Nation lands in San Juan, Rio Arriba, Sandoval, and McKinley Counties, New Mexico.

Ecosphere conducted TES surveys of the proposed project area under Navajo Nation Department of Fish and Wildlife (NNDFW) Special Permit #706 in 2011 and 2012. The purpose of the BE is to adhere to the Navajo Nation code requirement for species of concern (17 NNC 507) administered by the Navajo Natural Heritage Program (NNHP). As such, the objectives of the BE were as follows:

- Compile a list of NNHP listed threatened, endangered, candidate, and sensitive species potentially occurring in the project area.
- Provide a physical and biological description of the project area.
- Determine the presence of NNHP listed threatened, endangered, candidate, or sensitive species in the project area.
- Assess potential impacts the proposed action may have on any NNHP listed threatened, endangered, candidate, or sensitive species present in the project area.

This BE addresses impacts to Navajo Nation endangered species potentially occurring on Navajo Nation lands crossed by the proposed action. These lands may include tribal trust, allotted, and tribal fee lands. Impacts to federal, state, or Bureau of Land Management (BLM) special management species are addressed in the project Environmental Assessment (EA). The EA is on file at the BLM Farmington Field Office in Farmington, New Mexico.

2. PROJECT DESCRIPTION

Enterprise has proposed to install six, 16-inch (or 20-inch) diameter loop pipeline segments that would span approximately 247 miles diagonally across New Mexico. Figure 1 (Appendix A) shows an overview of the proposed project. The six loop segments would parallel three, existing Mid-America Pipeline Company, LLC pipelines in San Juan, Rio Arriba, Sandoval, McKinley, Bernalillo, Santa Fe, Torrance, Guadalupe, Lincoln, De Baca, Chaves, and Lea Counties in New Mexico. The proposed project would cross BLM, tribal, State of New Mexico, and private lands.

Enterprise would file for a right-of-way (ROW) grant with the Bureau of Indian Affairs (BIA) Regional Office in Gallup, New Mexico to construct the proposed loop pipeline for those portions in Segments 1 and 2 that are located on Navajo Nation lands. Construction of the proposed pipeline would require a 125-foot-wide construction corridor that includes a 50-foot-wide permanent right-of-way (ROW) and a

75-foot temporary use area (TUA). Additional TUAs would be required in certain areas such as in areas with rugged terrain, road crossings, and at pipeline point of intersection locations. None of these additional TUAs are located on Navajo Nation lands. Existing access roads would be used and no road improvements or construction would be required.

Segments 1 and 2 of the proposed project would cross a total of approximately 17.3 miles of Navajo Nation lands. Based on a 125-foot-wide ROW, the total amount of disturbance on Navajo Nation lands would be approximately 262 acres. The proposed pipeline would be located adjacent to existing roads and/or pipelines for the entire length of the project. Therefore, approximately 1/2 of the proposed ROW would overlap existing disturbance. Total new surface disturbance for the proposed project would be approximately 131 acres.

These two segments are included in the BIA Crownpoint Navajo Agency in the following Chapters: Huerfano, Nageezi, Ojo Encino, Torreon, and Counselor. Segment 1 would begin 2 miles southeast of Bloomfield, New Mexico at the Kutz Processing Plant and would travel southeast to end in Lybrook, New Mexico. Segment 2 would begin approximately 5.5 miles north of Ojo Encino, New Mexico and continue diagonally southeast to end in San Ysidro, New Mexico. Project vicinity maps (Figures 2 and 3) showing Segments 1 and 2 are included in Appendix A.

On Navajo Nation lands, the proposed pipeline would be located on eight United States Geological Survey (USGS) 7.5-minute topographic maps: Blanco Trading Post, Crow Mesa East, Crow Mesa West, Huerfano Trading Post, Lybrook, Ojo Encino Mesa, Star Lake, and Wolf Stand. Table 1 provides the legal descriptions for Segments 1 and 2, as well as the USGS 7.5-minute topographic maps and Navajo Nation Chapters that the proposed pipeline would cross. Project area maps showing the proposed pipeline on the USGS 7.5-minute topographic maps at a 1:24,000 scale are included in Appendix A (Figures 4 through 22).

Table 1. Legal descriptions for Segments 1 and 2, USGS 7.5-minute topographic maps, and Navajo Nation Chapters crossed by the proposed WEP III pipeline

Pipeline Loop Segment	Sections	Township	Range	County	USGS 7.5-min Topographic Map	Navajo Nation Chapter
1	2, 11, 24	25N	10W	San Juan	Huerfano Trading Post	Huerfano
	34, 35	24N	9W	San Juan	Blanco Trading Post	Nageezi
	1	23N	9W	San Juan	Crow Mesa West	Nageezi
	35	24N	8W	San Juan	Crow Mesa West	Nageezi
	1, 2, 5	23N	8W	San Juan	Crow Mesa West	Nageezi
	6, 8	23N	7W	Rio Arriba	Crow Mesa East, Lybrook	Nageezi
2	4, 9, 23, 24, 25	20N	5W	McKinley	Ojo Encino Mesa, Star Lake	Ojo Encino
	6, 26	19N	4W	Sandoval	Ojo Encino Mesa, Wolf Stand	Ojo Encino,

Pipeline Loop Segment	Sections	Township	Range	County	USGS 7.5-min Topographic Map	Navajo Nation Chapter
						Torreon
	7, 8, 17, 20, 21, 28	18N	3W	Sandoval	Wolf Stand	Torreon

Enterprise would utilize existing roads that cross through the Navajo Indian Reservation to access the proposed pipeline. The roads would cross through areas located on 10 USGS 7.5-minute topographic maps: Blanco Trading Post, Counselor, Crow Mesa East, Crow Mesa West, Huerfano Trading Post, Johnson Trading Post, Lybrook, Mule Dam, Ojo Encino Mesa, and Wolf Stand. Table 2 provides the legal description for access roads in Segments 1 and 2, as well as the USGS 7.5-minute topographic maps and the Navajo Nation Chapters that the roads cross through (Figures 4 through 22).

Table 2. Legal descriptions for Segments 1 and 2, USGS 7.5-minute topographic maps, and Navajo Nation Chapters crossed by the access roads for the proposed WEP III pipeline project

Pipeline Loop Segment	Section	Township	Range	County	USGS 7.5-min Topographic Map	Navajo Nation Chapter
1	2, 11, 24	25N	10W	San Juan	Huerfano Trading Post	Huerfano
	34	24N	9W	San Juan	Blanco Trading Post	Nageezi
	1	23N	9W	San Juan	Crow Mesa West	Nageezi
	35	24N	8W	San Juan	Crow Mesa West	Nageezi
	1, 2 , 5	23N	8W	San Juan	Crow Mesa West	Nageezi
	6, 8	23N	7W	Rio Arriba	Crow Mesa East, Lybrook	Nageezi
2	10, 15, 23, 25, 26, 36	22N	6W	McKinley	Counselor, Mule Dam	Counselor
	1, 12, 13, 24, 25	21N	6W	McKinley	Mule Dam	Counselor
	9, 13, 14, 15, 23, 24	20N	5W	McKinley	Ojo Encino Mesa	Ojo Encino
	18, 19, 20, 21, 28	20N	4W	Sandoval	Ojo Encino Mesa	Ojo Encino
	1	18N	4W	Sandoval	Wolf Stand	Torreon
	4, 23, 26, 35	19N	4W	Sandoval	Ojo Encino Mesa , Wolf Stand	Ojo Encino, Torreon
	7, 30	19N	3W	Sandoval	Johnson Trading Post, Wolf Stand	Torreon
	5, 7, 8, 16, 17,	18N	3W	Sandoval	Wolf Stand	Torreon

Pipeline Loop Segment	Section	Township	Range	County	USGS 7.5-min Topographic Map	Navajo Nation Chapter
	20, 21, 28					

Construction activities associated with the proposed action would include standard construction techniques that involve the following sequential operations: preconstruction survey to designate the centerline, edge of ROW, and existing utilities; mobilization of equipment; clearing of vegetation; grading; installation of best management practices for erosion control; topsoiling; trenching; pipe stringing; welding and coating pipe; lowering in and padding; backfilling; strength testing; and cleanup and restoration. Enterprise would follow a Reclamation and Monitoring Plan, as well as a Stormwater Management Plan. Enterprise would also utilize special construction methods as needed. The project EA contains a detailed construction description.

Construction is scheduled to begin summer 2013 and would take approximately 9 months to complete. Enterprise would comply with timing limitations associated with environmental mitigation for sensitive resources. Enterprise would comply with all applicable federal, state, and other local laws and regulations, and obtain the necessary permits for the installation of the pipeline. Construction of the proposed pipeline would not commence until the approval of the ROW grants.

Until vegetation is re-established following construction, Enterprise would conduct annual inspections as required by stormwater discharge permit requirements. The WEP III is expected to operate for 50 years or more. Abandonment of the project would be implemented in accordance with then-applicable permits, approvals, codes, and regulations. All areas of proposed surface disturbance were inspected in the field to ensure that potential impacts to natural resources would be minimized through the implementation of mitigation measures (Mid-America Pipeline Company, LLC 2013).

3. AFFECTED ENVIRONMENT

The proposed project would be located within Area 3 (Less Sensitive Area), as identified by the NNDFW and described in the Biological Resources Land Clearance Policies and Procedures, approved September 10, 2008. Area 3 has a low, fragmented concentration of species of concern.

The proposed project would span through undeveloped and slightly developed areas. Some scattered rural residences occur throughout the project area. Other developments in the general project area include natural gas wells, pipeline corridors, power lines, roads (i.e., paved and unpaved), and ranchland.

The northern portion of Segment 1 is located on Nacimiento geologic formation-derived badlands. The pipeline would cross Kutz Wash, approximately 2 miles south of Kutz Plant. As the proposed alignment continues south, it gains approximately 800 feet in elevation as it ascends a broad plateau. The terrain along the plateau is gently rolling with variable slopes ranging between 0 and 10 degrees with an overall southwestern aspect. Approximately 0.5 mile west of the Huerfano Mountain (mile post 395.7), the proposed ROW would cross United States (U.S.) Highway 550. Huerfano Mountain is the most prominent topographical feature located within the northern portion of the segment. Between mile posts 379.2 and 376.5, the terrain is once again characterized by badlands and the ROW traverses past Turtle Mountain, north of U.S. Highway 550. Slopes in this area reach up to 20 degrees. The remainder of the ROW would be located along the periphery of Blanco Wash and adjacent to U.S. Highway 550, terminating east of Lybrook, New Mexico.

The northern half of Segment 2 would be located on rolling, relatively mild terrain with slopes ranging between 0 and 10 degrees. The proposed ROW crosses State Highway 197, near mile post 334.5. At mile post 334.86, the terrain becomes variable as the alignment would cross Canon Trujillo and then ascend to a mesa top (associated with Black Mountain), before dropping down into Cañon Medro. Segment 2 terminates south of San Ysidro, New Mexico. Elevation of the proposed project area ranges between 6,700 and 7,300 feet.

Surface geology underlying the proposed project area is comprised from six different geologic formations—Nacimiento Formation, San Jose Formation, Kirtland and Fruitland Formation, Lewis Shale, Cliff House Sandstone, and Menefee Formation (New Mexico Bureau of Geology and Mineral Resources 2003). Prominent geologic features near the proposed project area include Heurfano Mountain, Turtle Mountain, and Eagle Mesa. Soil texture throughout the proposed project area ranged from fine to medium sandy clay loam to interspersed cobbles. The observed biological soil crusts were scattered throughout the proposed project area.

Ecosphere field crews delineated 31 waters of the United States (WUS) crossings within the proposed project area on Navajo Nation tribal trust land. Twenty-one WUS crossings were identified in Segment 1 and 10 were identified in Segment 2. These were all described as small, ephemeral drainages with an ordinary high water mark ranging from 1 to 10 feet in width and 2 to 12 inches in depth. No perennial

surface water in the form of rivers, lakes, ponds, or streams occur within the proposed project area, nor any wetlands, springs, or riparian habitats.

3.1 Biological Environment

3.1.1 Vegetation

The proposed project area crosses through three major vegetation communities—coniferous and mixed woodland, Great Basin desert scrub, and desert grassland (Dick-Peddie 1993). The proposed pipeline ROW would be located adjacent to and overlap an existing ROW; therefore, approximately half of the vegetation within the proposed ROW has been previously disturbed and may not have the same composition as its corresponding undisturbed vegetation type. However, for the purposes of broad-scale analysis, disturbed areas are considered to have similar composition to undisturbed areas. The vegetation communities are discussed in more detail below. No riparian or aquatic vegetation was observed during the biological resources surveys. A list of plant species observed in the proposed project area is provided as Appendix B.

In New Mexico, the coniferous and mixed woodland vegetation community is primarily piñon-juniper woodland (*Pinus* sp.-*Juniperus* sp.) (Dick-Peddie 1993). Segment 1, on the southern end of the line near Lybrook, has scattered ponderosa pine (*Pinus ponderosa*) trees located within 400 feet of the ROW. Segment 2 contains areas with Gambel oak (*Quercus gambelii*) intermixed within the piñon-juniper trees. The typical dominant species of coniferous and mixed woodland community include: piñon (*Pinus edulis*), Utah juniper (*Juniperus osteosperma*), Gambel oak, big sagebrush (*Artemisia tridentata*), mountain mahogany (*Cerocarpus montanus*), and blue grama (*Bouteloua gracilis*).

The Great Basin desert scrub vegetation type is limited to the northwestern corner of New Mexico and a sliver in north-central New Mexico (Dick-Peddie 1993). The dominant shrubs are big sagebrush, shadscale, greasewood (*Sarcobatus vermiculatus*), and fourwing saltbrush (*Atriplex canescens*). Shadscale is the best indicator of the Great Basin desert scrub community.

The composition of desert grassland communities is highly variable, with high shrub and forb densities (Dick-Peddie 1993). Typically, forbs comprise greater than 10 percent of the vegetation, although no single forb dominates in this vegetation type. Blue grama is the dominant grass in the proposed ROW. Many different species of shrubs and forbs are common, with most major shrub species also occurring in other vegetation types as well.

Halogeton (*Halogeton glomeratus*), an invasive, non-native plant species managed by the BIA, was observed in the proposed project area during the 2011 and 2012 biological surveys. Two patches of halogeton were observed in Segment 2 on Navajo Nation trust land. Halogeton is a BIA Navajo Region Class B species. Class B weeds are new invaders and management is required to prevent the spread of these species. However, the BIA has proposed removing halogeton from their noxious weed list.

3.1.2 Wildlife

In 2011 and 2012, Ecosphere documented all wildlife species and signs of wildlife observed during surveys. For a list of wildlife species observed during the biological survey refer to Appendix B. Mammals that were documented in segments 1 and 2 include pronghorn antelope (*Antilocapra americana*), coyote (*Canis latrans*), banner-tailed kangaroo rat (*Dipodomys spectabilis*), black-tailed jackrabbit (*Lepus californicus*), and desert cottontail (*Sylvilagus audubonii*).

Elk (*Cervus elaphus nelson*), woodrat (*Neotoma* sp.), and Gunnison's prairie dog were observed in Segments 1 and 2. Common porcupine (*Erethizon dorsatum*) was observed in Segment 2.

Reptiles observed in the survey area include whiptail lizard (*Cnemidophorus* sp.) and bull snake (*Pituophis catenifer sayi*). Whiptail lizard and bull snake were observed in Segment 1. Collared lizard was observed in Segment 6.

Seven Gunnison's prairie dog colonies were observed in several locations in the proposed project area. Approximately 184.9 acres of Gunnison's prairie dog colonies were delineated on Navajo Nation lands during 2012 biological surveys. The prairie dog colonies were located within the proposed ROW and generally extended outside of the ROW (Appendix A). The construction ROW would cross through approximately 1.01 miles of Gunnison's prairie dog colonies. Table 3 shows the locations of the Gunnison's prairie dog colonies delineated within the proposed project area in 2012 on Navajo Nation lands.

Table 3. Locations and sizes of Gunnison's prairie dog towns delineated within the proposed project area and near vicinity on Navajo Nation lands

Proposed Pipeline Segment	Mile Posts		Size of Prairie Dog Town (acres)	USGS 7.5-min Topographic Map
	Begin	End		
1	397.32	397.33	0.34	Huerfano Trading Post
	396.16	396.35	2.3	Huerfano Trading Post
	393.54	394.08	6.57	Huerfano Trading Post
2	344.15	344.21	6.8	Ojo Encino Mesa
	342.39	342.46	0.95	Ojo Encino Mesa
	336.85	337.02	153.24	Wolf Stand
	331.32	331.37	14.73	Wolf Stand
Total acres mapped:			**184.93**	

Great Basin desert scrub, piñon-juniper woodland, and desert grassland support a unique suite of avian species. Birds that may nest in this habitat in San Juan County include horned lark (*Eremophila alpestris*), sage thrasher (*Oreoscoptes montanus*), vesper sparrow (*Pooecetes gramineus*), Brewer's sparrow

(*Spizella breweri*), sage sparrow (*Amphispiza belli*), green-tailed towhee (*Pipilo chlorurus*), western meadowlark (*Sturnella neglecta*), and Cassin's kingbird (*Tyrannus vociferans*). Other species may utilize these habitats during the non-breeding season and may include mourning dove (*Zenaida macroura*), Gambel's quail (*Callipepla gambelii*), mountain bluebird (*Sialia currucoides*), and dark-eyed junco (*Juncus hyemalis*). The open desert scrub and agricultural fields in the vicinity offer potential foraging habitat for several raptor species including the red-tailed hawk (*Buteo jamaicensis*), golden eagle (*Aquila chrysaetos*), and ferruginous hawk (*Buteo regalis*). Burrowing owls (*Athene cunicularia*) were documented utilizing the burrows in the prairie dog colonies within the proposed project area. Red-tailed hawks were observed foraging within the proposed project area.

4. SURVEY METHODOLOGY

4.1 Data Request

A list of Navajo Nation species of concern was obtained through consultation with the NNHP (Table 4). The NNHP consultation letter is provided in Appendix C. Species of concern include NNHP and federally protected candidate and other rare or otherwise sensitive species. The species listed by the Navajo Nation are map-quadrangle specific rather than project-site specific. Therefore, project-specific habitat analyses were conducted to determine the potential for each species listed by the Navajo Nation to occur in the project area. The proposed project area spans across 11 separate USGS 7.5-minute topographic maps—Blanco Trading Post, Counselor, Crow Mesa East, Crow Mesa West, Huerfano Trading Post, Mule Dam, Johnson Trading Post, Lybrook, Ojo Encino Mesa, Star Lake, and Wolf Stand. Table 4 lists these species, their conservation status, habitat associations, and potential to occur in the project or action area.

The NNHP currently has records of five species of concern known to occur within 1 and 3 miles of the proposed project area: golden eagle, mountain plover (*Charadrius montanus*), Aztec gilia (*Aliciella formosa*), Brack's hardwall cactus (*Sclerocactus cloveriae* ssp. *brackii*), and San Juan milkweed (*Asclepias sanjuanensis*). However, one of these species, San Juan milkweed, is listed as occurring in a USGS 7.5-minute topographical map (East Fork Kutz Canyon) where the proposed pipeline ROW does not cross Navajo Nation lands. This plant species has not been recorded as occurring within any of the other USGS 7.5-minute topographical maps that the project crosses through. The NNHP lists nine additional species of concern with potential to occur on within the proposed project area (Appendix C).

Table 5 lists the NNHP listed species, their conservation status, habitat associations, and potential to occur in the project or action area. The action area consists of the proposed pipeline ROW and surrounding terrain within a 1/3-mile radius of the ROW. Species that have the potential to occur in the project or action area (within 1/3-mile radius of the project area) are in bold text.

Table 4. Navajo Nation listed species with potential to occur in proposed WEP III pipeline project area

Species	Status	Habitat Associations	Potential to Occur in the Project or Action Area
Black-footed ferret (*Mustela nigripes*)	**Group 2**	**Open grasslands with year-round prairie dog colonies at least 198 acres in size with ≥8 burrows/acre.**	**Approximately 940 acres of non-contiguous prairie dog colonies occur in the project and action area.**
Kit fox (*Vulpes macrotis*)	**Group 4**	**Dens excavated in desert scrub or desert grasslands with soft, alluvial, or silty clay soils.**	**Potential habitat occurs in the project and action area.**
American dipper (*Cinclus mexicanus*)	Group 3	Occurs from Arizona and New Mexico and northward to Alaska. Found along clear, unpolluted rushing mountain streams, as high as timberline. Generally non-migratory, but may descend to lower elevations in winter.	No mountain streams occur in the project or action area.
Bald eagle (*Haliaeetus leucocephalus*)	Group 2	Bald eagles seem to prefer timbered areas along coasts, large lakes, and rivers, but also occupy other areas.	No streams or large lakes occur in the project or action area.
Burrowing owl (*Athene cunicularia*)	**Group 4**	**Nests in ground burrows (often deserted prairie dog burrows) in dry open grasslands or desert scrub.**	**Recorded in the project and action area.**
Ferruginous hawk (*Buteo regalis*)	**Group 3**	**Flat or rolling terrain in grasslands, shrub-steppes, and deserts, as well as badlands. Prefers elevated nest sites (e.g., buttes, utility poles, trees, and on the ground). Species is a secretive nester preferring little human disturbance.**	**Potential habitat occurs in the project and action area.**
Golden eagle (*Aquila chrysaetos*)	**Group 3**	**In the West, mostly open habitats in mountainous, canyon terrain. Nests primarily on cliffs and trees.**	**Known to occur in the project and action area.**
Mountain plover (*Charadrius montanus*)	**Group 4**	**Breeds in extremely dry, level shrublands, shortgrass prairie, barren agricultural fields, and other sparsely vegetated areas.**	**Potential habitat occurs in the project and action area.**
Peregrine falcon (*Falco peregrinus*)	Group 4	In New Mexico, the breeding territories of peregrine falcons center on cliffs that are in wooded/forested habitats, with large "gulfs" of air nearby in which these predators can forage. Breeding areas are usually near water.	No suitable habitat occurs in the project or action area.

Species	Status	Habitat Associations	Potential to Occur in the Project or Action Area
Southwestern willow flycatcher (*Empidonax traillii extimus*)	Group 2	Breeds in dense, shrubby riparian habitats, usually in close proximity to surface water or saturated soil.	No riparian habitats occur in the project or action area.
Northern leopard frog (*Lithobates pipiens*)	Group 2	A variety of aquatic habitats: marshes, pond, steams, irrigation ditches, wet meadows, and shallow portions of reservoirs.	No aquatic habitats occur in the project or action area.
Aztec gilia (*Aliciella formosa*)	**Group 4**	**Desert scrub communities on the Nacimiento formation; 5000-6400 feet; blooms April-May.**	**Suitable habitat occurs in the action area.**
Brack's hardwall cactus (*Sclerocactus cloveriae* ssp. *brackii*)	**Group 4**	**Sandy clay of the Nacimiento Formation in sparse shadscall scrub (5,000-6,000 feet)**	**Recorded in the project and action area.**
San Juan milkweed (*Asclepias sanjuanensis*)	**Group 4**	**Sandy loam soils, usually in disturbed sites, in juniper savanna and Great Basin desert scrub (5,000-6,200 feet).**	**Suitable habitat occurs in the project and action area.**

Notes: Bolded table text indicates species that have a potential to occur in proposed WEP III pipeline project area. Navajo Endangered Species List Group definitions: Group 2 = endangered and includes species whose prospects of survival or recruitment are in jeopardy; Group 3 = endangered and includes species whose prospects of survival and recruitment are likely to be in jeopardy in the foreseeable future; Group 4 = candidates and includes species that may be endangered but for which NNHP lacks sufficient information to support being listed.

4.2 Field Survey

Pedestrian surveys of the proposed project were conducted by Ecosphere in 2011 and 2012. Initial baseline data was collected in 2011. In 2012, follow-up surveys were conducted in areas where listed species or habitats were identified during the 2011 surveys. These included Aztec gilia, Brack's hardwall cactus, burrowing owl, black-footed ferret (*Mustela nigripes*), Gunnison's prairie dog, and raptor species. In August 2012, the survey corridor was increased to 300 feet to insure sufficient coverage and provide flexibility for the pipeline design; therefore, survey widths were increased approximately 50 feet on each side of the ROW. Surveyors walked the survey area spaced at approximately 50 feet apart. Transect spacing was decreased to approximately 10 feet in areas of potential special status plant habitat to ensure proper coverage. All plant and wildlife species and signs of wildlife observed in the project area were recorded and digital photos of the project area were taken. Binoculars were used to survey for raptors and potential nest habitat.

5. Navajo Nation Species of Concern

5.1 Species Eliminated from Detailed Evaluation

Based upon evaluation of habitat associations (Table 4) and field surveys, five of the 14 NNHP species of concern can be eliminated from detailed consideration. These species are American dipper (*Cinclus*

mexicanus), bald eagle (*Haliaeetus leucocephalus*), peregrine falcon (*Falco peregrinus*), southwestern willow flycatcher (*Empidonax traillii extimus*), and northern leopard frog (*Lithobates pipiens*).

5.2 Species Warranting Detailed Evaluation

Nine NNHP species of concern have the potential or are known to occur within the proposed project area. These species are black-footed ferret, kit fox (*Vulpes macrotis*), burrowing owl, ferruginous hawk, golden eagle, mountain plover (*Charadrius montanus*), Aztec gilia, Brack's hardwall cactus, and San Juan milkweed.

5.2.1 Black-footed Ferret

Status: Federal Endangered, Navajo Endangered Species List (NESL) Group 2

Distribution and habitat: Black-footed ferrets are found in open grasslands with year-round prairie dog populations. Formerly, the black-footed ferret ranged from the Great Plains of Canada to Texas. The primary threat to black-footed ferrets is the loss of prairie dog towns and complexes due to grassland conversion and rodenticide use, and diseases (USFWS 2009). In New Mexico, this species historically occurred over most of northern and central New Mexico.

Remarks: Approximately 940 acres of Gunnison's prairie dog towns were identified and mapped in Segments 1 and 2 on BLM and Navajo Nation lands during the 2011 and 2012 field surveys. Ecosphere completed protocol black-footed ferret surveys in the mapped Gunnison's prairie dog towns in October 2012. No black-footed ferrets or sign of black-footed ferrets were observed during the surveys.

5.2.2 Kit Fox

Status: NESL Group 4

Distribution and habitat: The historical range of the kit fox includes the desert areas of southern Oregon, down to the Baja Peninsula, and over to western Texas. Kit fox have the potential to inhabit all desert lands on the Navajo Nation. They excavate dens in desert scrub or desert grasslands with soft, alluvial, or silty-clay soils and often with sparse saltbrush (*Atriplex* sp.), shadscale (*Atriplex obovata*), greasewood, or sagebrush, and grasses. Dens have an average of three key-hole-shaped entrances that are 20 to 25 centimeters (cm) in height and less than 20 cm wide (Mikesic and Roth 2008).

Remarks: The desert scrub terrain and soft alluvial soils provide potential denning habitat for the kit fox in the proposed project and action areas. No kit fox were observed during the 2011 and 2012 biological surveys, but three fox dens were recorded during 2012 surveys in Segment 1. It was not determined what specific fox species uses these dens. The dens were located more than 1,500 feet from the proposed pipeline ROW and identified during prairie dog colony delineations.

5.2.3 Burrowing Owl

Status: NESL Group 4; Migratory Bird Treaty Act (MBTA)

Distribution and habitat: The burrowing owl breeding range spans across western North America, generally from south-central Canada to northern Mexico and west to California and Washington; a disjunct population occurs in Florida. Their winter range includes most of Texas; southern parts of New Mexico, Arizona, and California; and northern parts of Central America (Mikesic and Roth 2008). Burrowing owls nest in ground burrows in dry, tree-less, open grasslands or desert scrub; they rarely dig their own burrows, but commonly take over deserted prairie dog or other mammal burrows and can inhabit man-made burrows (AGFD 2009).

Remarks: The NNHP consultation letter does not list the burrowing owl as a species known to occur within 1 mile of the proposed project area (Appendix C). However, three burrowing owl locations were identified within the proposed project area on Navajo Nation lands during the 2011 and 2012 biological surveys. Twelve other burrowing owl locations were identified within the proposed ROW on BLM or State of New Mexico lands. Burrowing owl locations, as identified on Figures in Appendix A, include both sightings and den locations. Specific burrowing owl surveys were conducted in 2012 at mapped prairie dog towns within the proposed project area. Table 5 shows the burrowing owl den occupancy and associated pipeline mile post locations on Navajo Nation lands. Owl occupancy was based on the presence of at least one owl, owl molted feathers, cast pellets, prey remains, eggshell fragments, or excrement at or near a burrow entrance (NMDGF 2007).

Table 5. Burrowing owl den occupancy in 2011 and 2012 on Navajo Nation lands, associated mile post locations, and New Mexico USGS 7.5-minute topographic maps

Proposed Pipeline Segment	Burrowing Owl Occupancy		Mile Post	USGS 7.5-min Topographic Map
	2011	2012		
1	Occupied	Unoccupied	380.4	Crow Mesa West
2	Unoccupied	Occupied	344.3	Ojo Encino Mesa
	Occupied	Occupied	348.7	Ojo Encino Mesa

5.2.4 Ferruginous Hawk

Status: NESL Group 3; MBTA

Distribution and habitat: Ferruginous hawks occur year round throughout the Navajo Nation, inhabiting dry, flat, or rolling grasslands and desert scrub (Mikesic and Roth 2008). This species prefers elevated nest sites. Nests on the Navajo Nation are most often on rock pinnacles, buttes, or short cliffs. Nests have also been documented in juniper trees, transmission-line towers, and on the ground (Mikesic and Roth 2008). Nest sites are adjacent to habitat supporting populations of preferred prey species such as desert cottontails, black-tailed jackrabbits, prairie dogs, and ground squirrels.

Remarks: The open grasslands and semi-desert shrub steppe plant community of the project and action area provides suitable foraging habitat for ferruginous hawks. Elevated badlands and buttes in the action area may provide suitable nesting habitat; however, no ferruginous hawk nests were observed in

the action area during the 2011 and 2012 biological surveys. According to the BLM Farmington Field Office (FFO), the closest historic or active ferruginous hawk nest on public land occurs approximately 3 miles from the proposed project area (BLM 2012, unpublished data). Ferruginous hawks are easily disturbed during the breeding season (White and Thurow 1985, Bechard et al. 1990). No ferruginous hawks were observed in the proposed project area during the field surveys in 2011 and 2012.

5.2.5 Golden Eagle

Status: NESL Group 3; Eagle Protection Act and MBTA.

Distribution and habitat: Golden eagles are found year round throughout northwestern New Mexico. They typically inhabit mountainous or hilly terrain, hunting over open country. On the Navajo Nation, golden eagles typically nest on steep cliff ledges, usually greater than 100 feet in height, although shorter cliffs may also be used (Mikesic and Roth 2008). In other parts of its range, golden eagles may nest in large trees, manmade structures, and rarely on the ground. Nest sites are adjacent to open habitats that support preferred prey populations.

Remarks: The open grasslands and semi-desert shrub steppe plant community of the project and action area provides suitable foraging habitat for golden eagles. No suitable nesting habitat occurs within the proposed ROW. According to the BLM/FFO, four active or historic golden eagle nests are known to occur within 0.15 to 1 mile of the proposed project area. One of these nests is located approximately 1 mile from an existing access road and occurs on Navajo Nation land. The others are located on BLM land. Up to 15 other golden eagle nests are known to occur on public lands within 10 miles of the proposed project area (BLM 2012, unpublished data). The NNHP has records of the golden eagle occurring within 1 and 3 miles of the proposed project area on six USGS 7.5-minute topographic map—Crow Mesa East, Crow Mesa West, Huerfano Trading Post, Johnson Trading Post, Lybrook, and Ojo Encino Mesa. Golden eagles are easily disturbed during the breeding season; human disturbance can cause adults to abandon their nests or juveniles to fledge prematurely (Pagel et al. 2010). No golden eagles were observed during the 2011 or 2012 biological surveys.

5.2.6 Mountain Plover

Status: NESL Group 4; MBTA.

Distribution and habitat: Mountain plovers breed in Montana, Wyoming, eastern Colorado, central to northern New Mexico, Oklahoma, and Texas. They migrate south to central California and southern parts of Arizona, New Mexico, Texas, and into northern Mexico. Known breeding on the Navajo Nation only occurs in New Mexico. Mountain plovers typically nest in flat to slightly rolling expanses of grassland, semi-desert, or badlands that have short, sparse vegetation and large bare areas. These bare areas are typically disturbed through grazing or other vegetation clearing activities. Mountain plovers nest on the ground (Mikesic and Roth 2008).

Remarks: The open grasslands and semi-desert shrub steppe plant community of the project and action area provides suitable habitat for mountain plovers. The northern portion of Segment 2 of the proposed

pipeline and access routes cross through potential mountain plover habitat as mapped by the BLM/FFO (BLM 2012, unpublished data). The NNHP has records of the mountain plover occurring within 1 and 3 miles of the proposed project area on four USGS 7.5-minute topographic maps—Counselor, Mule Dam, Ojo Encino Mesa, and Star Lake. No mountain plovers were observed during the 2011 and 2012 biological surveys.

5.2.7 Aztec Gilia

Status: NESL Group 4

Distribution and habitat: Aztec gilia is endemic to New Mexico and occurs in San Juan County, near the communities of Bloomfield and Aztec. Aztec gilia is only found on soils derived from the Nacimiento Formation in the San Juan Basin. This plant is located in salt desert scrub communities at elevations ranging from 5,000 to 6,400 feet (Mikesic and Roth 2008). Aztec gilia is often found near populations of Brack's hardwall cactus. This species flowers in April and May (NMRPTC 1999).

Remarks: Some soils in Segment 1 are derived from the Nacimiento Formation. The topography, coupled with the soils and vegetation community, in the vicinity of the proposed project area provides suitable habitat for this species. No Aztec gilia were observed within the proposed project area or vicinity on Navajo Nation land during the biological surveys in 2011 and 2012. However, Aztec gilia was recorded on lands administered by the BLM.

5.2.8 Brack's Hardwall Cactus

Status: NESL Group 4

Distribution and habitat: Brack's hardwall cactus is endemic to New Mexico and occurs in San Juan County, New Mexico south of the San Juan River (Mikesic and Roth 2008). Brack's hardwall cactus is restricted to the sandy clay strata of the Nacimiento Formation in sparse desert scrub and scattered juniper communities. This cactus occurs at elevations between 5,000 and 6,400 feet. Flowering occurs between April and June (NMRPTC 1999).

Remarks: The NNHP consultation letter does not list the Brack's hardwall cactus as a species known to occur within proximity to the proposed project area. However, two populations of Brack's hardwall cactus were identified within the proposed project area in Segment 1 on Navajo Nation lands during the 2011 and 2012 biological surveys (Appendix A). Six other populations were identified within the proposed pipeline ROW on BLM and State of New Mexico lands. Brack's hardwall cactus was recorded in both San Juan and Rio Arriba Counties. Table 6 shows the locations of the Brack's hardwall cactus populations and how many were recorded within the proposed project area on Navajo Nation lands. The population identification is based on the Township, Range, and Section the population is located within.

Table 6. Brack's hardwall cactus locations within the proposed project area on Navajo Nation lands

Brack's Hardwall Cactus Population Identification	Number in Proposed Project Area	Mile Post	County	USGS 7.5-min Topographic Map
T23N, R8W, S1NE	102	375.77-377.67	San Juan	Crow Mesa West
T23N, R9W, S15NW	29	371.63-371.72	Rio Arriba	Lybrook

5.2.9 San Juan Milkweed

Status: NESL Group 4

Distribution and habitat: Habitat for San Juan milkweed is described as sandy soils located within Great Basin grassland and piñon-juniper woodlands. The species is restricted to San Juan County at elevations ranging between 5,000 to 6,200 feet. The blooming period is late April into early May. This plant species is often found in disturbed sites. San Juan milkweed is known to occur in San Juan County, New Mexico, east of U.S. Highway 491 and south of the San Juan River (Mikesic and Roth 2008).

Remarks: The sandy soils and vegetation communities found within the proposed project area and near vicinity provide potential habitat for this species. However, the elevation throughout the proposed project area ranges between 6,700 and 7,300 feet. These elevations are likely too high for this species. None were observed during the 2011 and 2012 biological surveys.

6. Analysis and Determination of Effects

As required in the guidelines for preparation of BEs issued by the NNHP, the following sections discuss impacts to Navajo Nation species of concern and avian species protected under the MBTA.

6.1 NNHP Species of Concern

The proposed action area contains prairie dog colonies of sufficient size to be considered suitable habitat for black-footed ferret. The species is not known to occur in the area and none were observed during species-specific surveys conducted in 2012. No impacts to black-footed ferret would result from the proposed action.

No kit fox dens or signs thereof were observed in the project area. Kit fox may incidentally cross through the project or action area. Impacts to kit fox may include avoidance of the area during construction due to increased human and vehicular activity. These impacts would be of low intensity and short term in duration. There would be a short-term modification of potential foraging habitat resulting from disturbance of approximately 262 acres of vegetation. Following reclamation, these areas would be expected to revegetate within one to three growing seasons.

The proposed project area provides nesting and foraging habitat for burrowing owls. Burrowing owls were recorded as nesting within the proposed project area. The potential for disturbance and nest

destruction would be greatest during the breeding and nesting season, between the months of March and August. Impacts to nesting burrowing owls would be avoided with the implementation of mitigation measures, such as timing restrictions and buffers. The proposed project would disturb approximately 15.3 acres of potential burrowing owl habitat. This impact would be short term, as Gunnison's prairie dogs typically recolonize an area post-disturbance.

The proposed project area provides potential foraging habitat for golden eagle and ferruginous hawk. No potential nesting habitat for these species would be removed or modified by the proposed action. One known historic or active golden eagle nest occurs within 1 mile of an existing road that would be used to access the proposed ROW. Three other known historic or active golden eagle nests occur within 3 miles of the proposed project area on BLM land. Nest failure, nest abandonment, and early juvenile fledging has been documented at golden eagle nests that have been disturbed (Pagel et al. 2010). The potential for disturbance to nesting golden eagles would be greatest between the months of February and July. Impacts to nesting raptors would be avoided by implementing pre-construction surveys, timing restrictions, and buffers. Impacts to golden eagle and ferruginous hawk would result from the modification of a maximum of 255.8 acres foraging habitat for these species. The entire proposed ROW, with the exception of where it overlaps existing roadways, would be reclaimed following construction. After reclamation of the proposed project area, there would be a short-term change in vegetation density and composition, which could affect the prey base for raptors. Additional impacts may include avoidance of the project area by raptors during construction due to disturbance and activity from human and vehicle presence and associated noise. Impacts from avoidance would be short term for the duration of construction.

The proposed project area provides potential foraging and nesting habitat for mountain plover. The potential for disturbance and nest destruction would be greatest during the breeding and nesting season, between the months of March and August. No impacts to nesting mountain plover would occur with the implementation of pre-construction surveys, timing restrictions, or buffers should any nesting mountain plovers be recorded in the project area. Impacts may include avoidance of the project area by mountain plovers during construction due to disturbance and activity from human and vehicle presence and associated noise. Impacts from avoidance would be short term for the duration of construction.

The Nacimiento-derived soils and the badlands in the project and action area in Segment 1 provide suitable habitat for the Aztec gilia. No Aztec gilia observed within the proposed project area on Navajo Nation land. No impacts to this species are expected from the construction of the proposed project.

Several Brack's hardwall cactus populations were identified within the proposed project and action areas (Table 6 and Appendix A). A Mitigation and Monitoring Plan has been developed in coordination with the NNDFW, BLM, and New Mexico State Land Office to minimize impacts to Brack's hardwall cactus from the proposed project.

Under the plan, all of the Brack's hardwall cacti within the proposed ROW would be transplanted to adjacent existing populations. These transplant locations would be monitored for a period of 5 years.

Transplanting Brack's hardwall cacti may result in some mortality during handling and transporting. The stress of transplanting may also result in mortality. The amount of this mortality cannot be determined at this time, given the number of associated factors. Currently, the BLM requires segregation of topsoil in occupied and suitable but unoccupied habitat for Brack's hardwall cacti. The location of suitable but unoccupied habitat has been delineated on Figures in Appendix A. This mitigation measure would preserve the cacti seedbed and minimize impacts to the subspecies. Even with the implementation of mitigation measures, there would be long-term adverse impacts to Brack's hardwall cacti populations within the proposed ROW. However, no population-level impacts are expected to occur.

The sandy soils located within Great Basin grassland and piñon-juniper woodlands in the proposed project area and near vicinity may provide suitable habitat for the San Juan milkweed, especially at the lower elevations area near 6,700 feet. None were observed during the biological surveys in 2011 and 2012. No impacts to this species are expected from the construction of the proposed project.

6.2 Species Protected Under the MBTA

Approximately 262 acres of vegetation in the project area would be disturbed by the proposed action. Vegetation removal would result in a loss of habitat for a variety of ground and shrub-nesting birds protected under the MBTA. Avian species most likely to breed and forage in the project area are discussed in Section 3.1: Biological Environment. Direct impacts to these species are expected to be greater if construction occurs during the breeding season (April through August), when nest destruction is possible. These impacts would be minimized by conducting a pre-construction nest survey during the nesting season and implementing mitigation measures, such as timing restrictions or buffers. Other direct effects may include avoidance of the project area and vicinity by some bird species due to disturbance associated with human and vehicle presence. These impacts would be short-term for the duration of construction. Population-level impacts are not expected to occur, given the availability of suitable habitat outside the project area and adherence to mitigation measures described in Section 7: Mitigation

6.3 Cumulative Effects

Cumulative effects include the incremental impacts of an action when added to other past, present, and reasonably foreseeable future actions. The proposed project is located in an area that has been industrialized with oil and gas well and transportation development. The cumulative impacts fluctuate with the gradual reclamation of well abandonments and the creation of new additional surface disturbances in the construction of new access roads, pipelines, and well pads. The on-going process of restoration of abandonments and creating new disturbances for drilling new wells gradually accumulates as the minerals are extracted from the land. Preserving as much land as possible and applying appropriate mitigation measures will alleviate the cumulative impacts.

It is reasonable to assume that additional natural gas pipelines would be installed and natural gas wells would be constructed in this area in the future; however, the exact number of pipelines and wells is unknown. The potential future development of new well pads, pipelines, and associated access roads in

the area would have a low cumulative impact on kit fox, burrowing owl, ferruginous hawk, golden eagle, mountain plover, and Brack's hardwall cactus numbers. With the implementation of mitigation measures, cumulative impacts to NESL listed species would be low. The proposed action would not contribute significantly to the regional loss or degradation of biological resources due to the location of the proposed action and the utilization of areas that have been previously disturbed.

7. MITIGATION

The following species-specific and construction mitigation measures would be implemented; however, additional measures may be identified by the land managing agencies should the proposed project be approved.

- Raptor surveys will be conducted prior to construction to determine the presence or absence of nesting raptors within the proposed project and action areas. No surface disturbance activities would occur within a 1/3-mile (0.53 km) radius of active raptor nests between February 1 and June 30.
- Mountain plover surveys will be conducted prior to construction between May 1 and June 15 to determine the presence or absence of mountain plovers within the proposed project and action areas.
- Pre-construction surveys for burrowing owl would be conducted in potential habitat. Should active burrowing owl nests be identified, no disturbance within a 1/4-mile (0.4 km) radius will be allowed from April 1 to August 15 and no habitat alteration will be allowed within a 1/8-mile radius year round. The applicant will coordinate with the NNDFW regarding disturbance within 1/8 mile of a recorded nest site.
- Should active golden eagle nests be identified, no brief activities will be allowed within 0.375 mile (0.6 km) of an active nest; no heavy activities will be allowed within 0.625 mile (0.8 km) of an active nest. This would be in place from February 1 to July 15. Brief activities are those that occur for up to one hour per day and involve only personnel or vehicles. Heavy activities include construction activities that involve human activity for up to one week (NNHP 2008).
- Should active ferruginous hawk nests be identified, no brief activities will be allowed within 5/8 mile (1 km) of an active nest; no heavy activities will be allowed within 3/4 mile (1.2 km) of an active nest. This would be in place from March 1 to July 31. Construction activity could commence 30 days post-fledging (Mikesic and Roth 2008).
- Should mountain plovers occupy an area within or near the ROW, no disturbance will be allowed between April 1 and July 15. Should active nests be identified, the project will be delayed by 37 days within 1/8-mile (0.2 km) radius of a nest with eggs, or 7 days if chicks are observed.
- Given the number of Brack's hardwall cacti within the proposed ROW, a Mitigation and Monitoring Plan will be implemented upon approval by the BLM/FFO and NNDFW. The plan will include transplanting all of the cacti located within the ROW into monitoring plots. Segregation of topsoil will occur within areas identified as occupied or suitable Brack's hardwall cactus habitat.
- Avoid vegetation removal during the migratory bird nesting period where nests are identified, generally May 15 to July 15. A pre-construction nest survey will be conducted should construction be scheduled during this timeframe.

- All employees will receive environmental awareness training during orientation to address native wildlife, sensitivity to various kinds of impacts, consequences of poaching, information about federal and state wildlife laws, licensing and residency requirements, and outdoor recreation opportunities.
- General mitigations for wildlife include confining construction activities and equipment to the permitted area to reduce disturbance to area wildlife due to noise and human/vehicle/ equipment presence. All trash will be removed and hauled to a licensed landfill.
- To reduce erosion, Enterprise will minimize areas of surface disturbance through sound construction planning. best management practices will be employed to reduce potential impacts associated with erosion and soil disturbance. Temporary erosion and sedimentation control measures will be employed as specified by Enterprise until conditions are suitable for final restoration. All topsoil would be stockpiled for use during reclamation. Woody debris removed during construction will be used as erosion control in the project area.
- To limit dust associated with project-related traffic, Enterprise will apply water to unpaved roads, staging areas, and points along the ROW. Vehicles traveling along the ROW will not exceed speeds of 15 miles per hour (mph). On access roads, posted speed limits will be followed or speeds would not exceed 30 mph.
- Enterprise has prepared and will follow an Integrated Noxious and Invasive Weed Management Plan. All equipment would be thoroughly cleaned prior to being brought to the ROW to avoid contamination from noxious weeds. If working in sites with weed-seed contaminated soil, equipment will be cleaned prior to moving into uncontaminated terrain. Enterprise will avoid driving vehicles through areas where weed infestations exist.
- Reclamation of the ROW will commence following pipeline construction. Reseeding will occur in accordance with Navajo Department of Agriculture guidance, including seed mixes and appropriate seeding dates (recommendation of June 15 through August 30 or dormant seeding November 1 through December 15). Enterprise will monitor reclamation success of the ROW.

8. REFERENCES

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Appendix A: Figures

Figure 1: Proposed Western Expansion Project III Segment 1 Vicinity Map

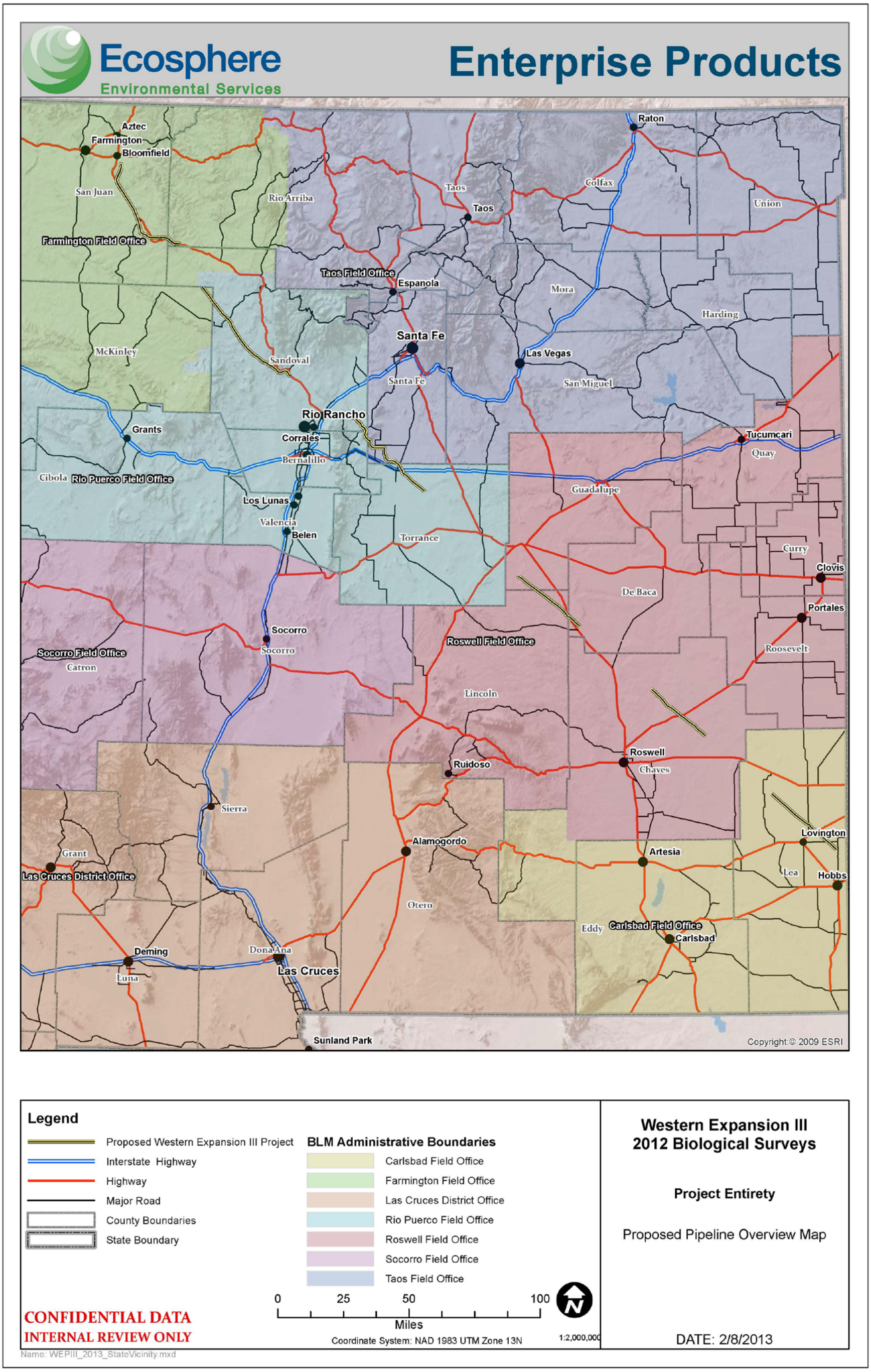


Figure 2: Proposed Western Expansion Project III Segment 1 overview map

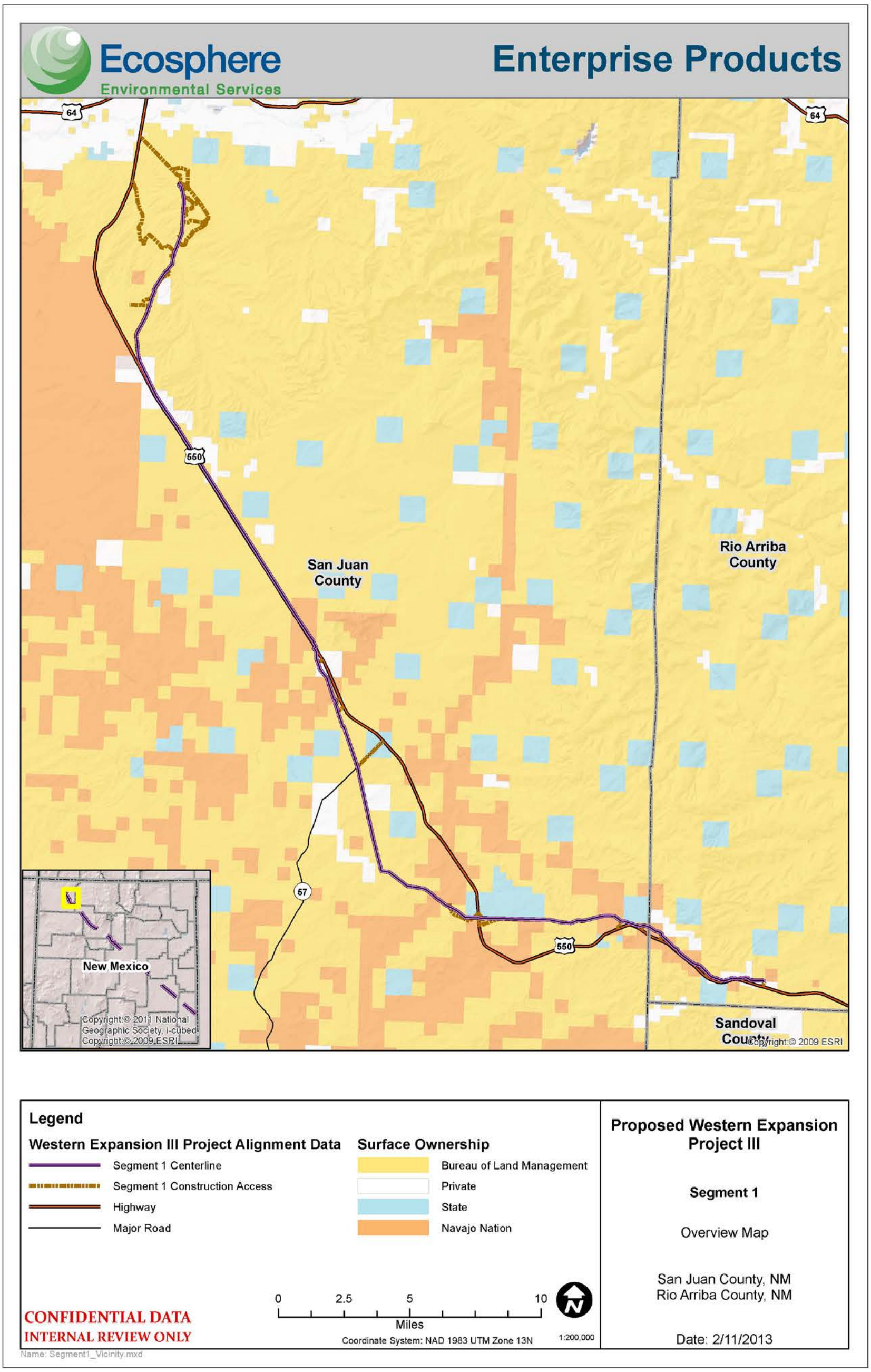


Figure 3: Proposed Western Expansion Project III Segment 2 overview Map

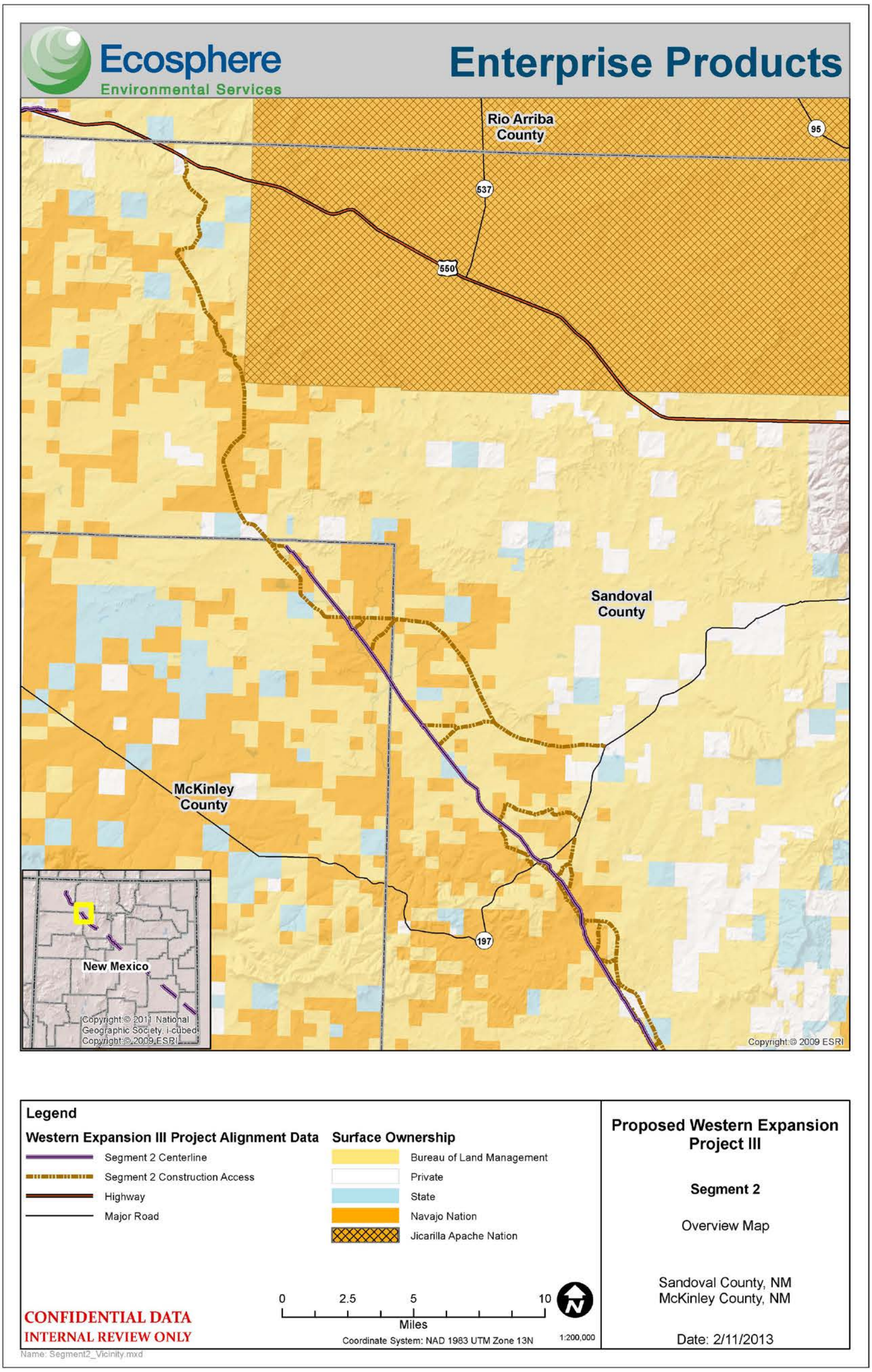

Ecosphere
Environmental Services
Enterprise Products
Rio Arriba County
95
537
550
Sandoval County
McKinley County
197
New Mexico
Copyright:© 2011 National Geographic Society, i-cubed
Copyright:© 2009 ESRI
Copyright:© 2009 ESRI
Legend
Western Expansion III Project Alignment Data
Segment 2 Centerline
Segment 2 Construction Access
Highway
Major Road
Surface Ownership
Bureau of Land Management
Private
State
Navajo Nation
Jicarilla Apache Nation
CONFIDENTIAL DATA
INTERNAL REVIEW ONLY
0 2.5 5 10
Miles
Coordinate System: NAD 1983 UTM Zone 13N
1:200,000
Name: Segment2_Vicinity.mxd
Proposed Western Expansion Project III
Segment 2
Overview Map
Sandoval County, NM
McKinley County, NM
Date: 2/11/2013

Figure 4: Page 1of 19 showing the proposed project on USGS 7.5-minute topographical map

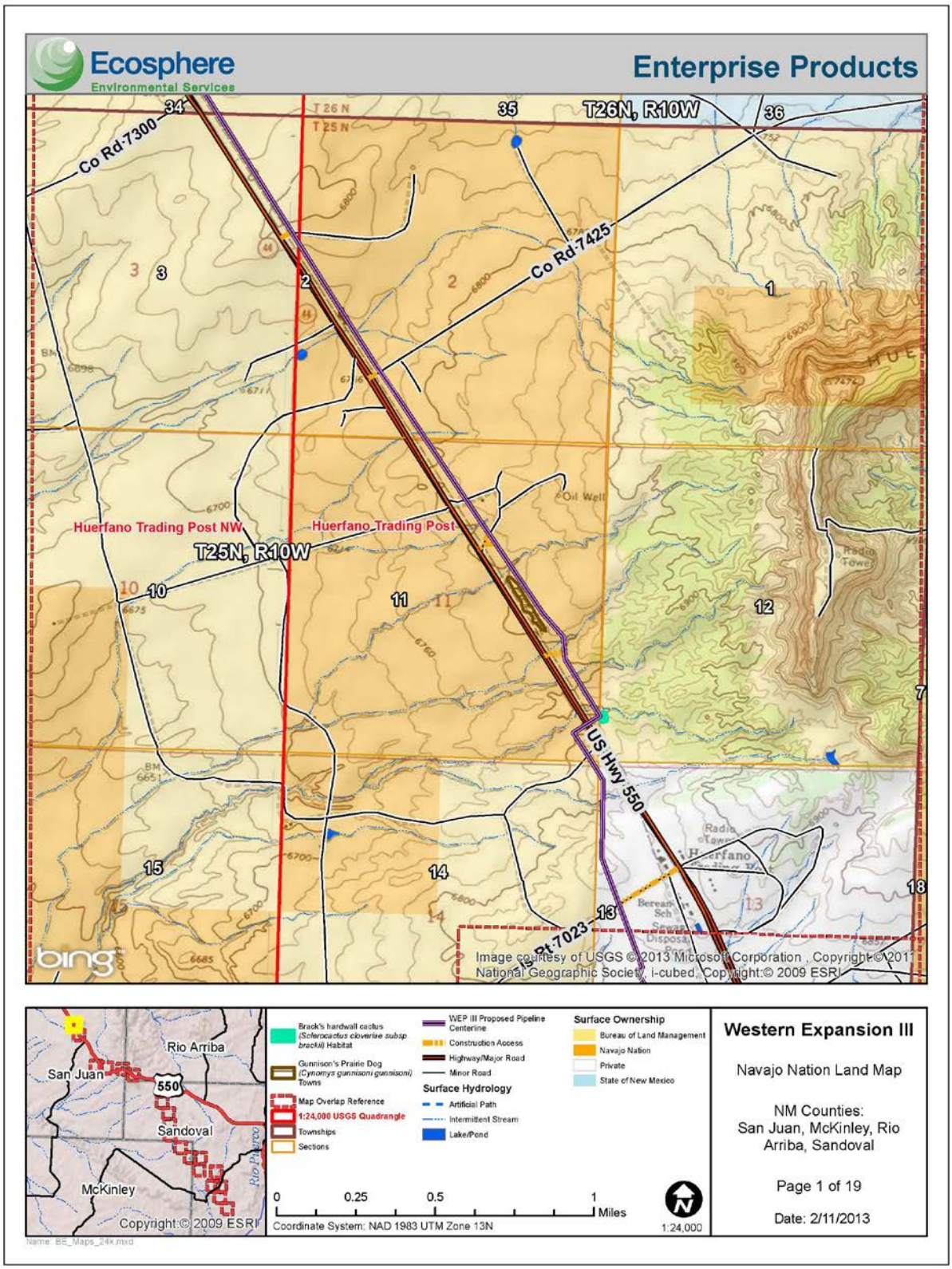


Figure 5: Page 2 of 19 showing the proposed project on USGS 7.5-minute topographical map

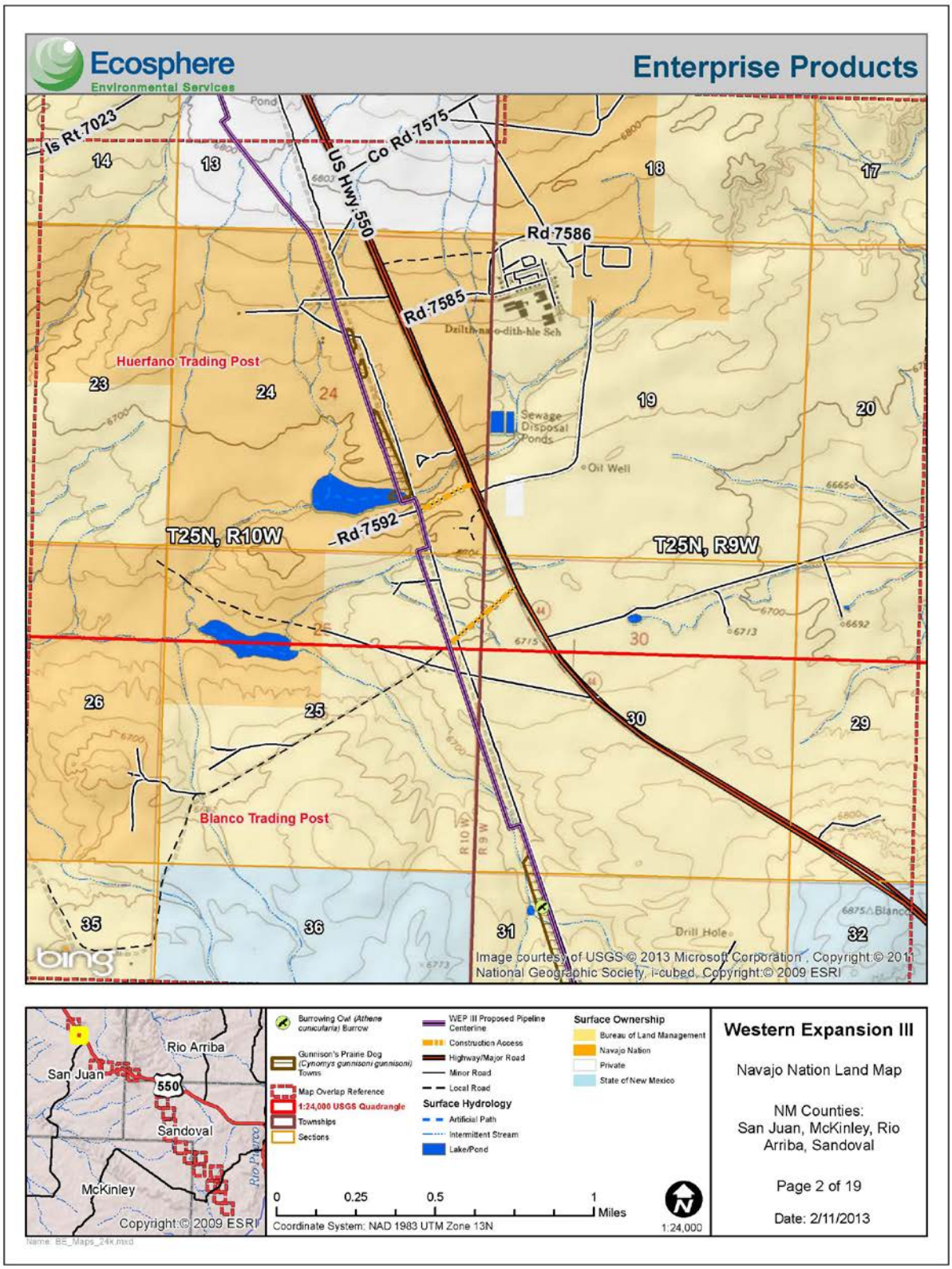


Figure 6: Page 3 of 19 showing the proposed project on USGS 7.5-minute topographical map

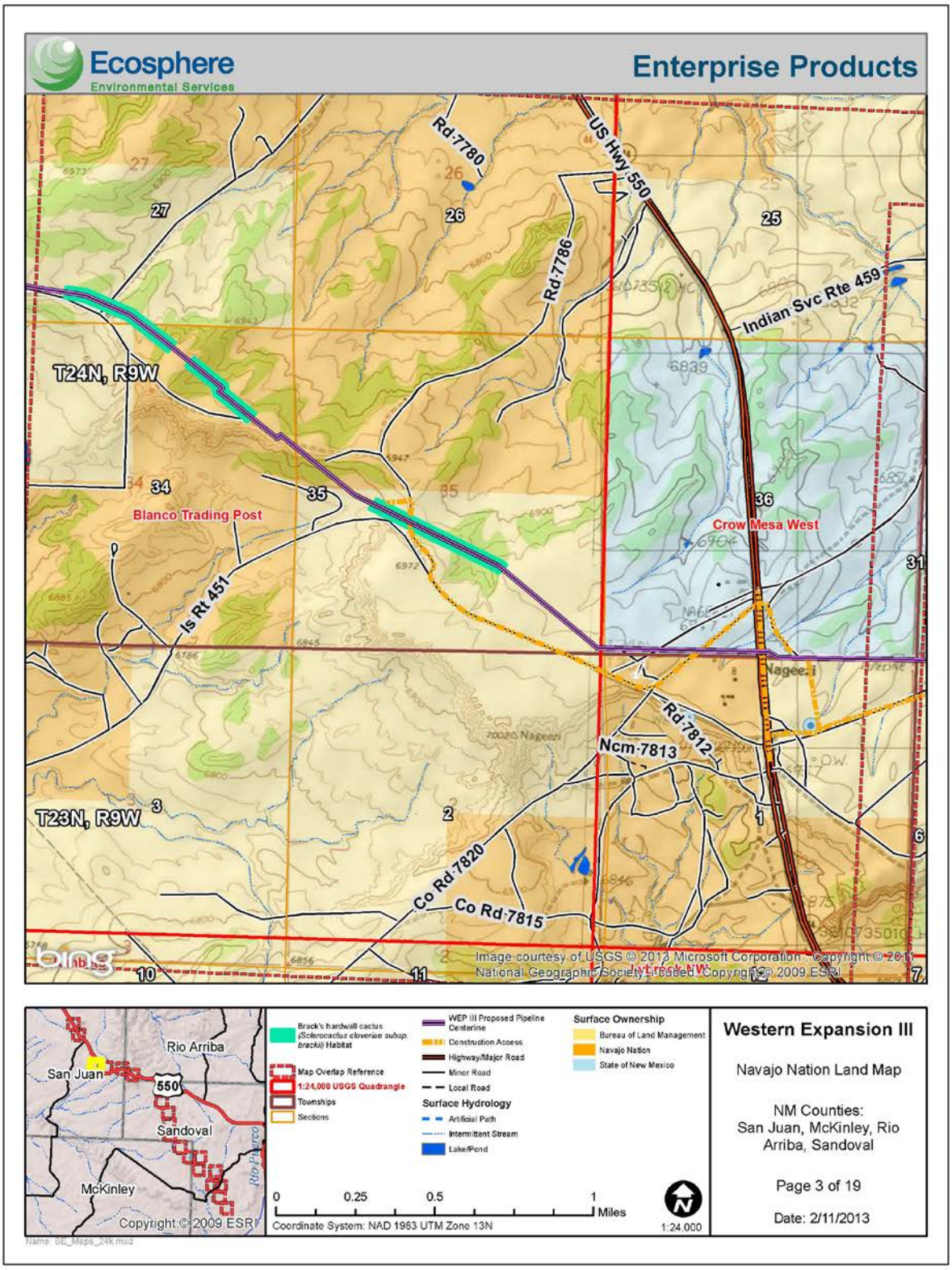


Figure 7: Page 4 of 19 showing the proposed project on USGS 7.5-minute topographical map

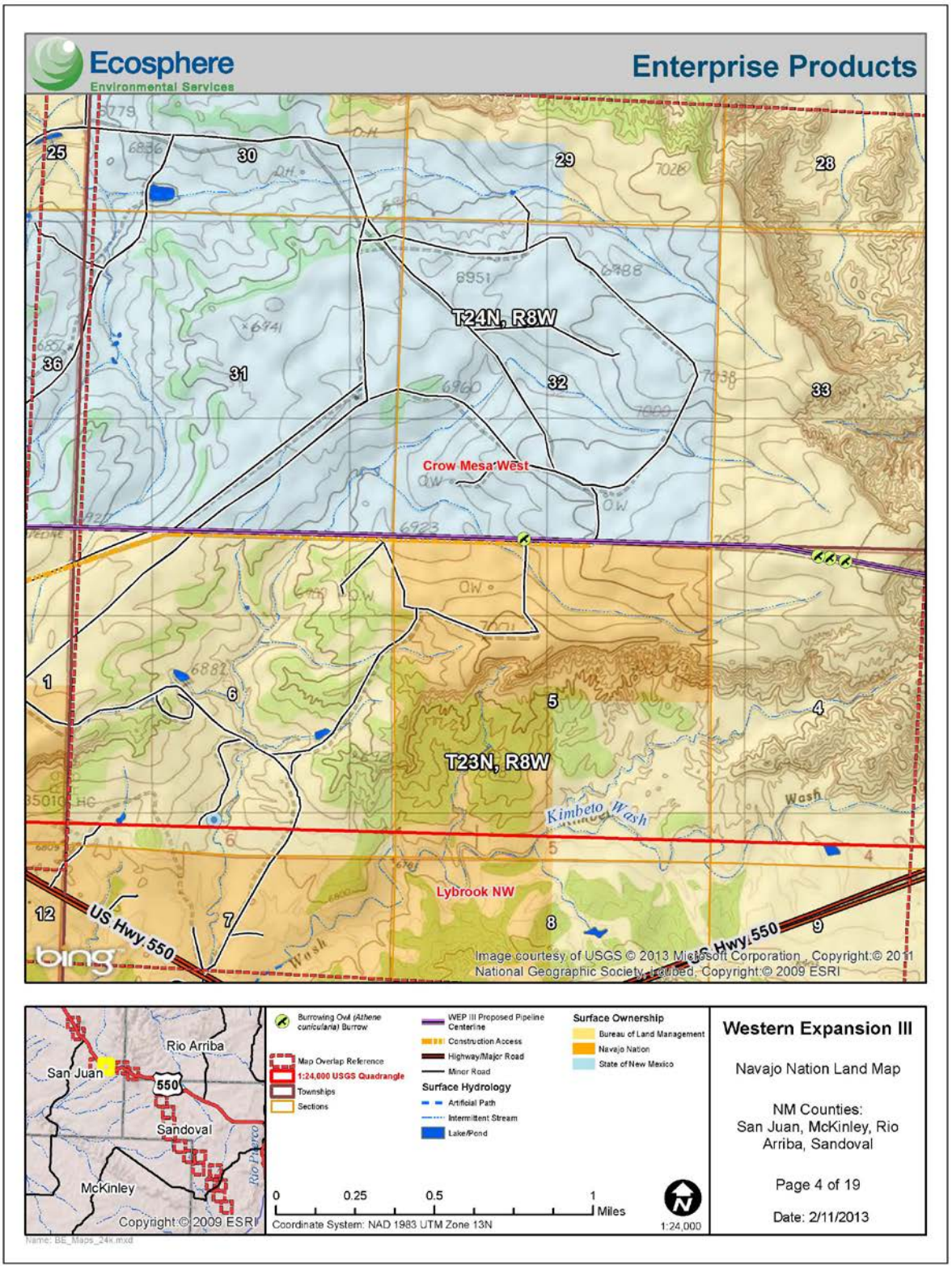


Figure 8: Page 5 of 19 showing the proposed project on USGS 7.5-minute topographical map

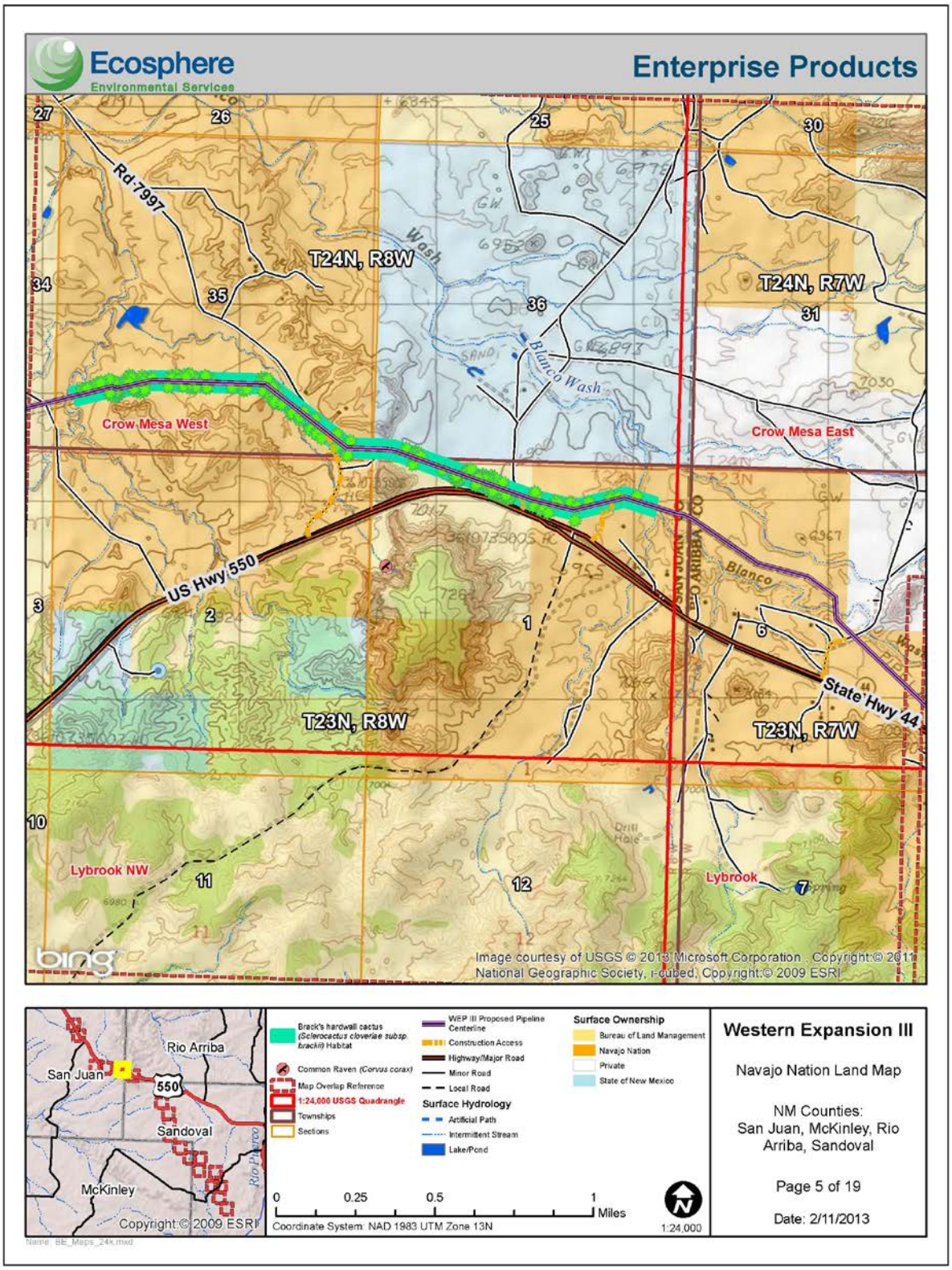


Figure 9: Page 6 of 19 showing the proposed project on USGS 7.5-minute topographical map

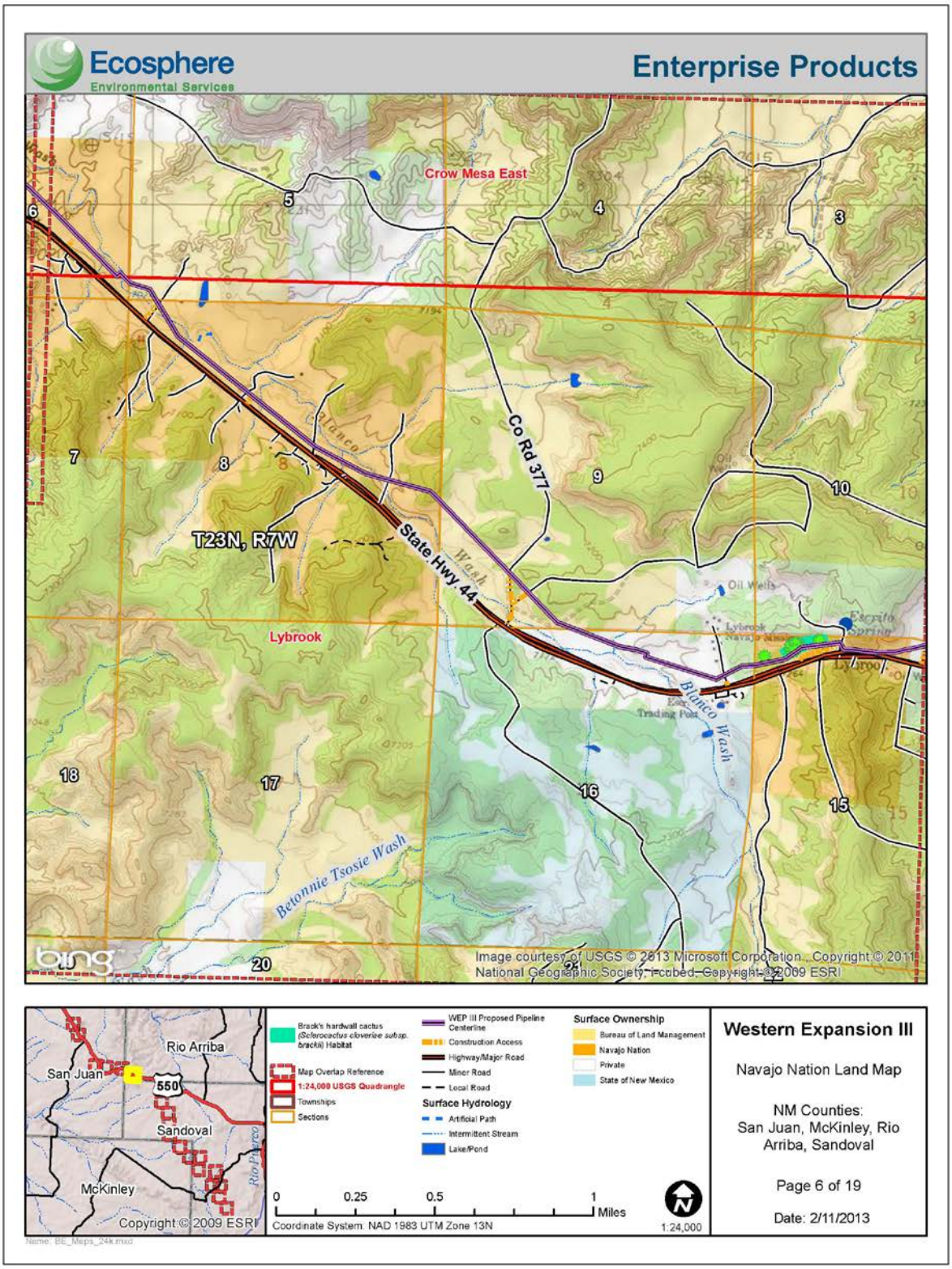


Figure 10: Page 7 of 19 showing the proposed project on USGS 7.5-minute topographical map

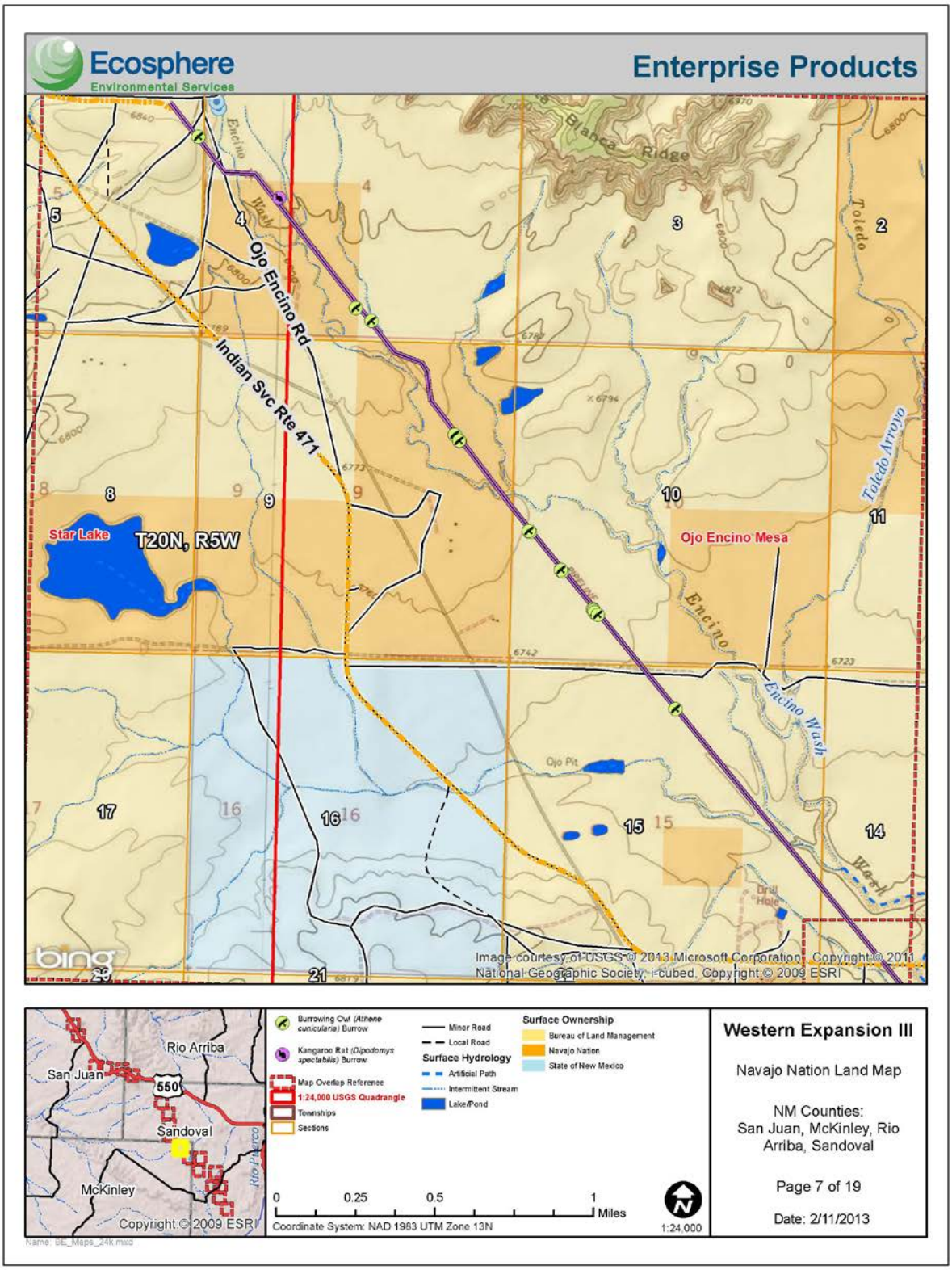


Figure 11: Page 8 of 19 showing the proposed project on USGS 7.5-minute topographical map

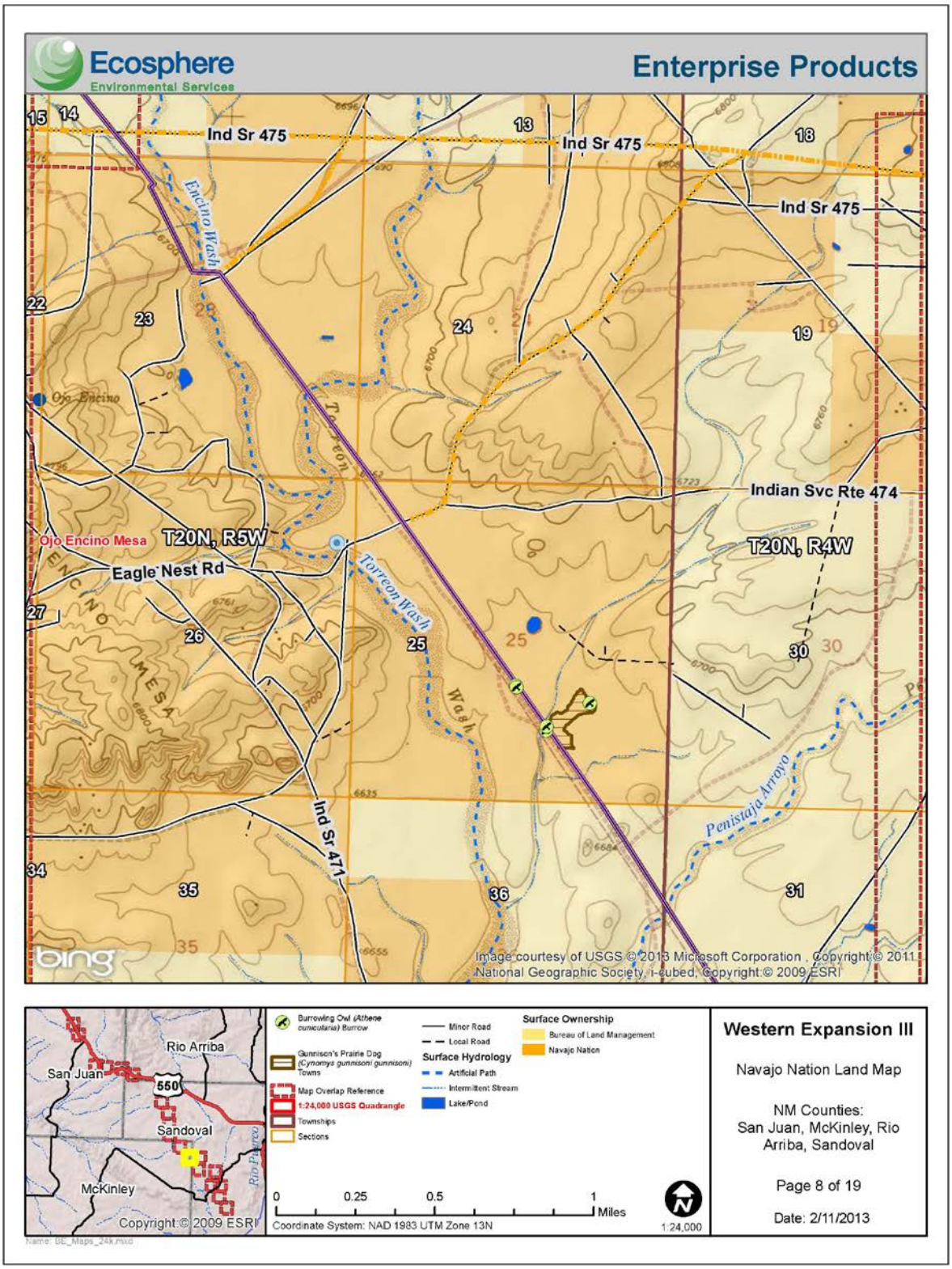


Figure 12: Page 9 of 19 showing the proposed project on USGS 7.5-minute topographical map

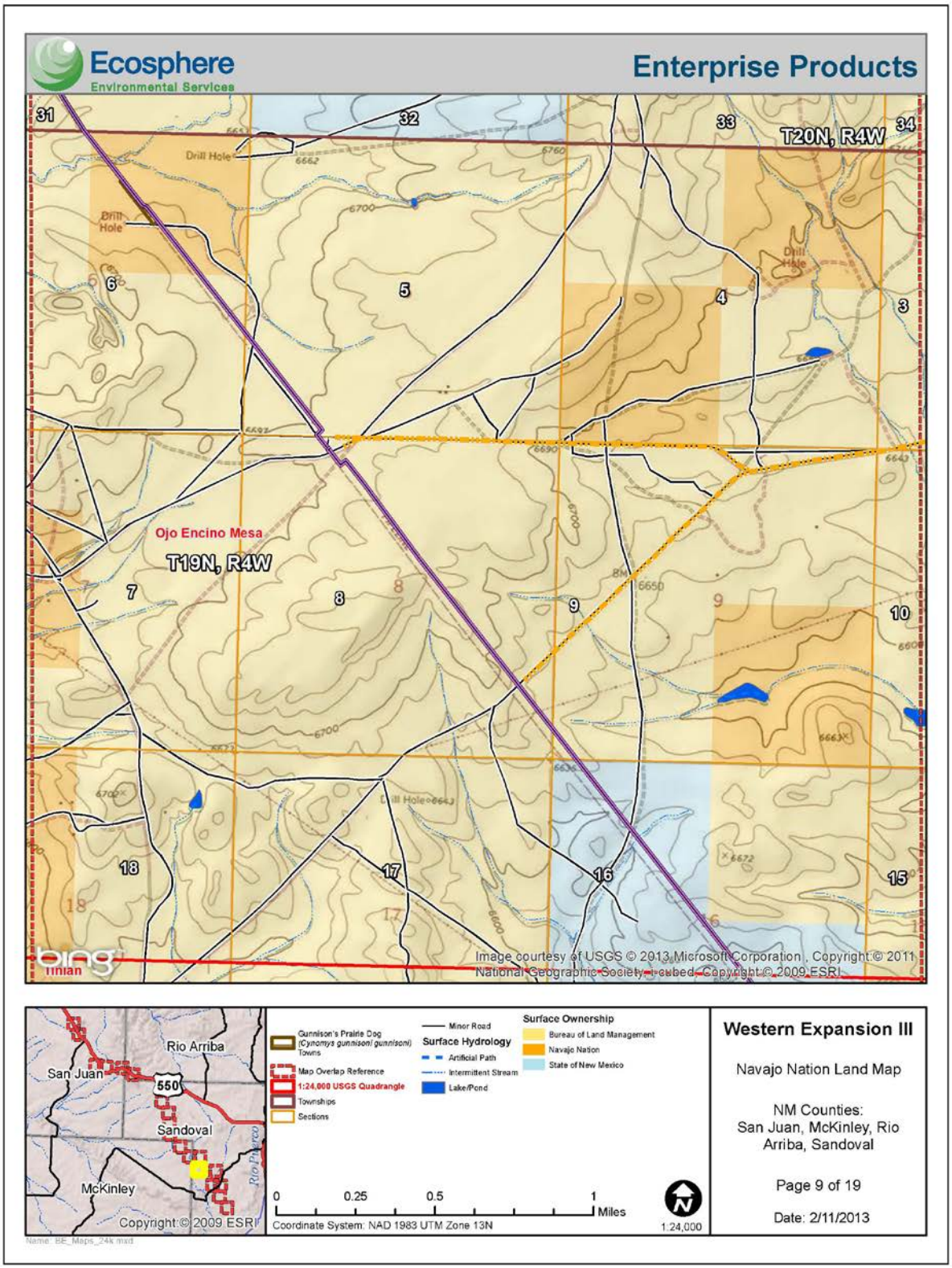


Figure 13: Page 10 of 19 showing the proposed project on USGS 7.5-minute topographical map

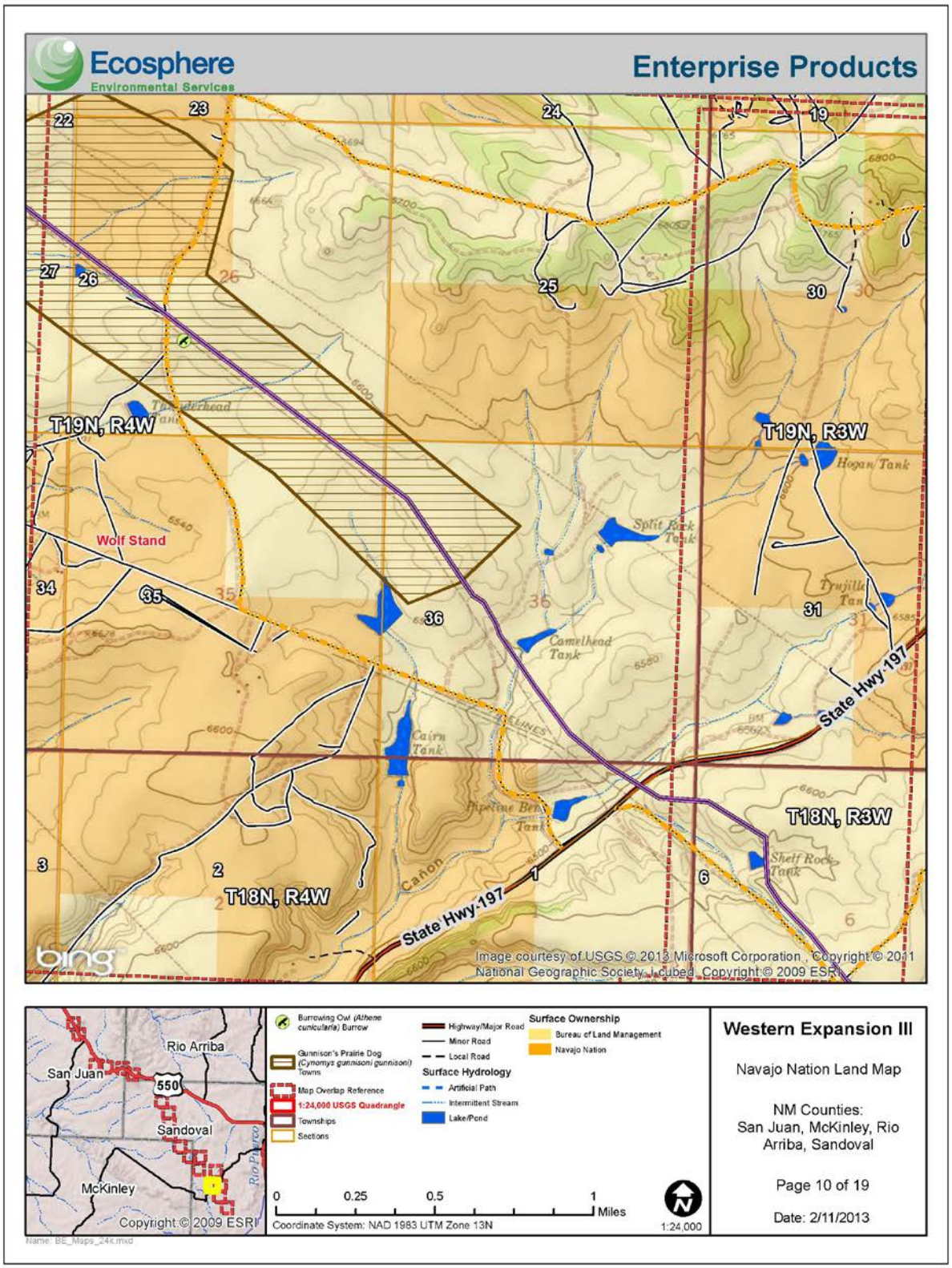


Figure 14: Page 11 of 19 showing the proposed project on USGS 7.5-minute topographical map

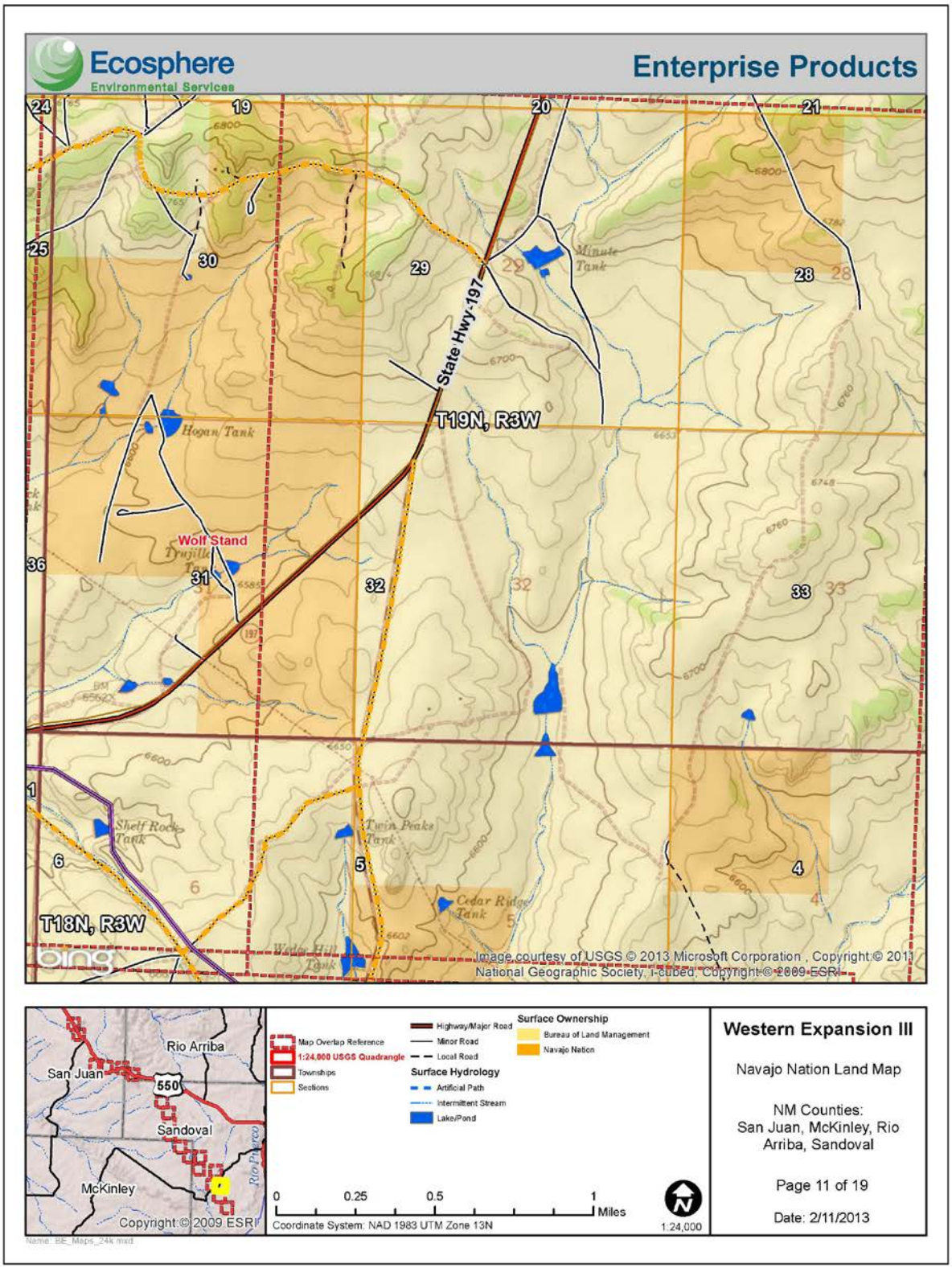


Figure 15: Page 12 of 19 showing the proposed project on USGS 7.5-minute topographical map

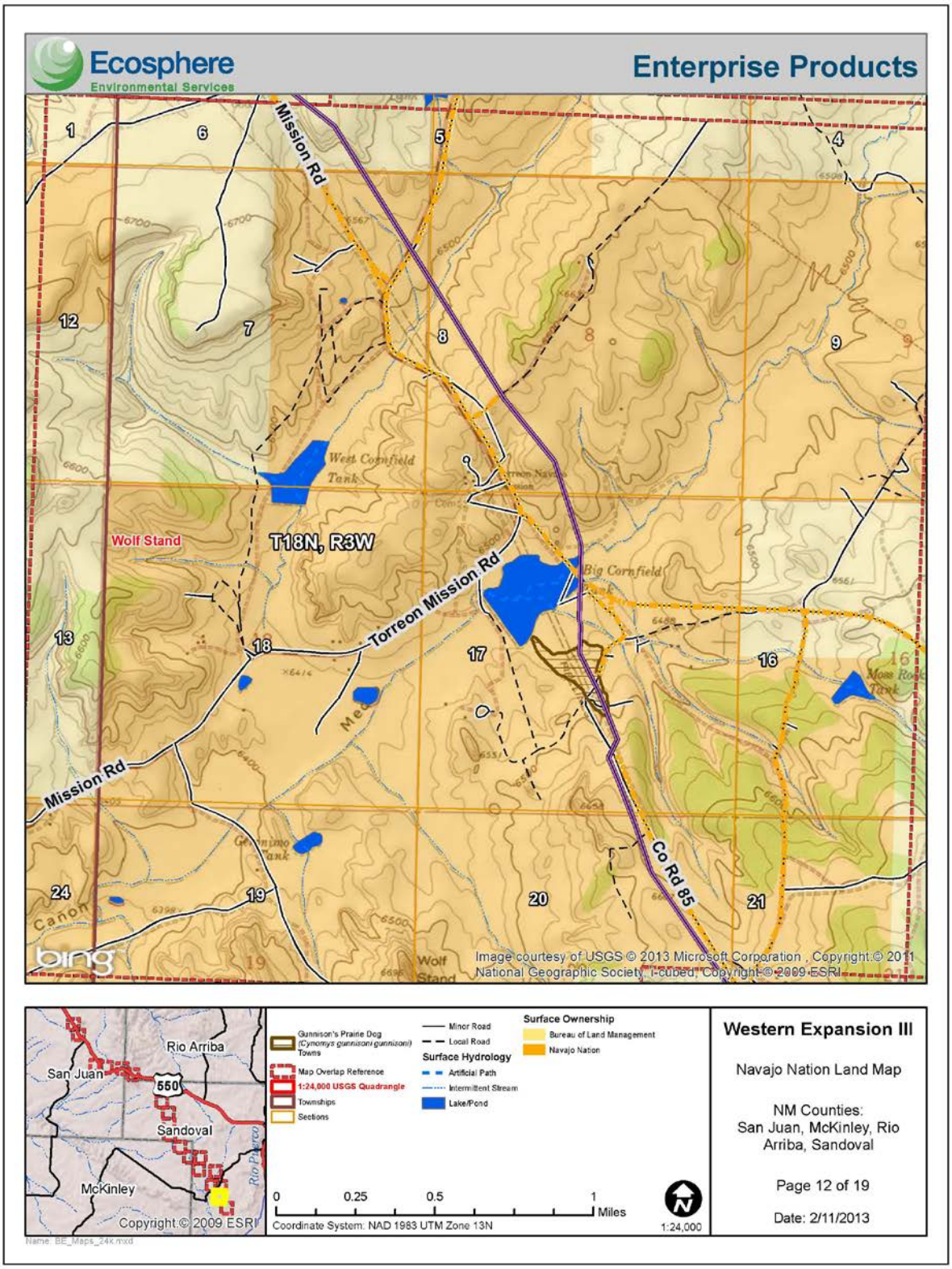


Figure 16: Page 13 of 19 showing the proposed project on USGS 7.5-minute topographical map

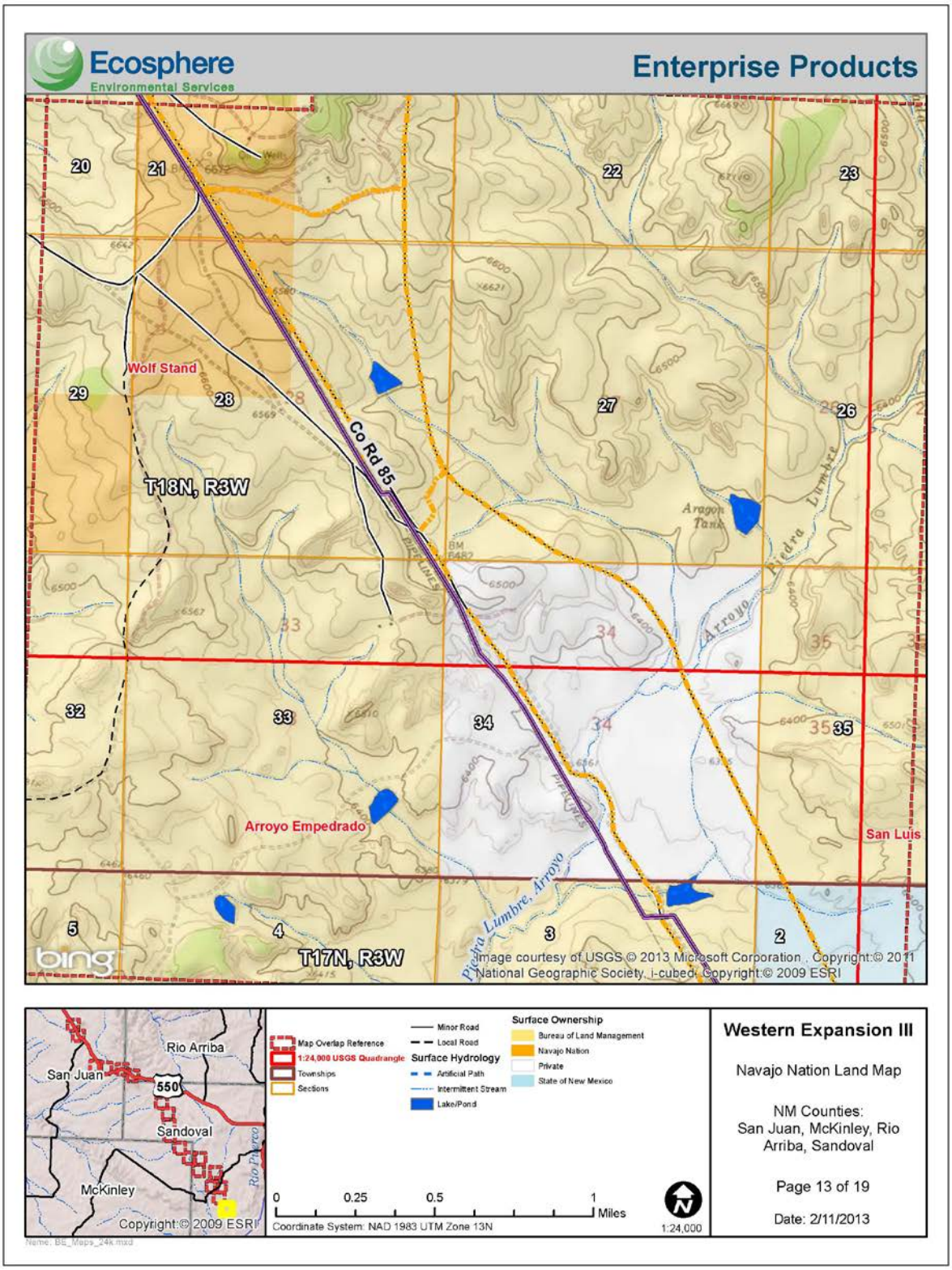


Figure 17: Page 14 of 19 showing the proposed project on USGS 7.5-minute topographical map

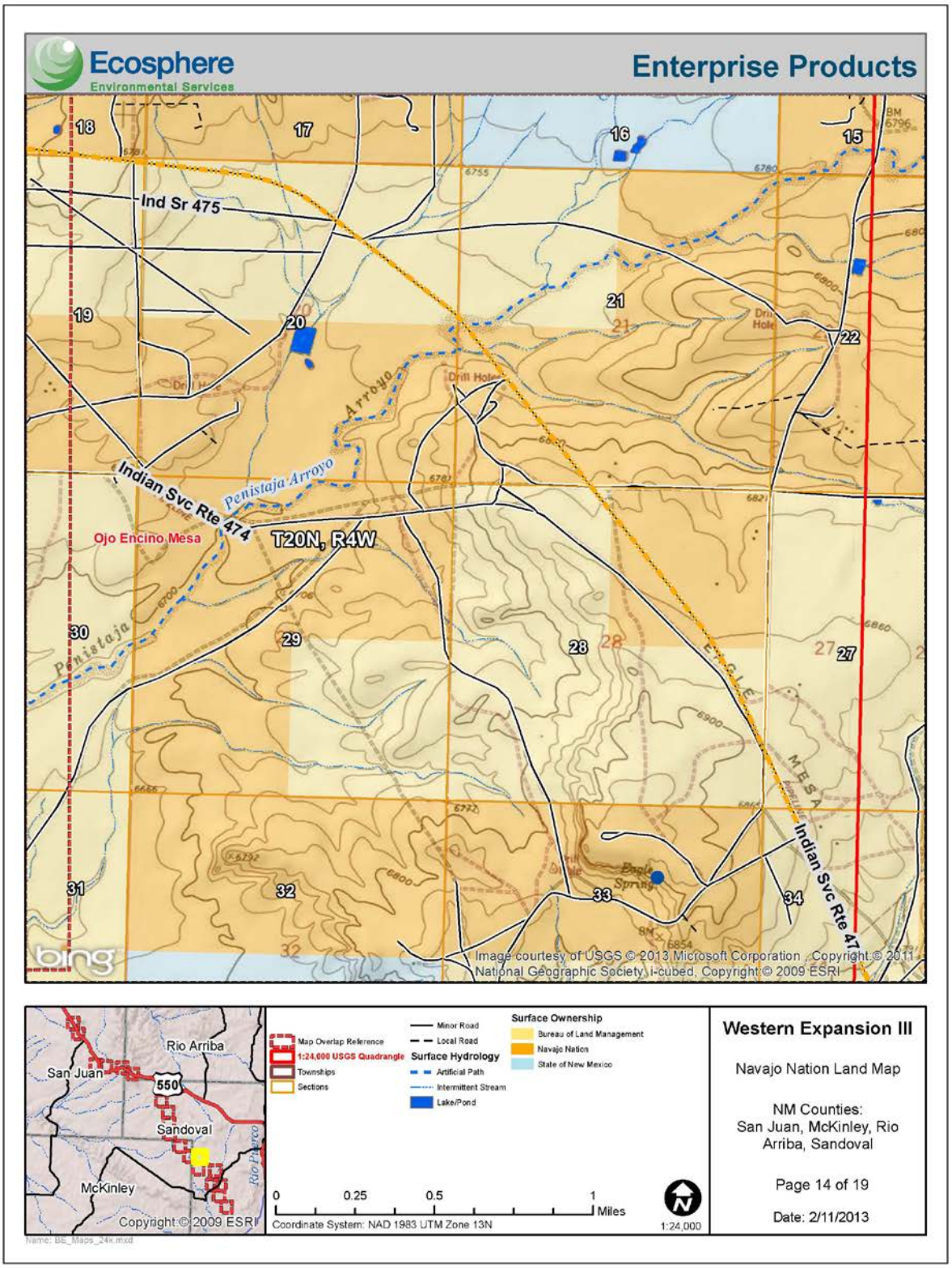


Figure 18: Page 15 of 19 showing the proposed project on USGS 7.5-minute topographical map

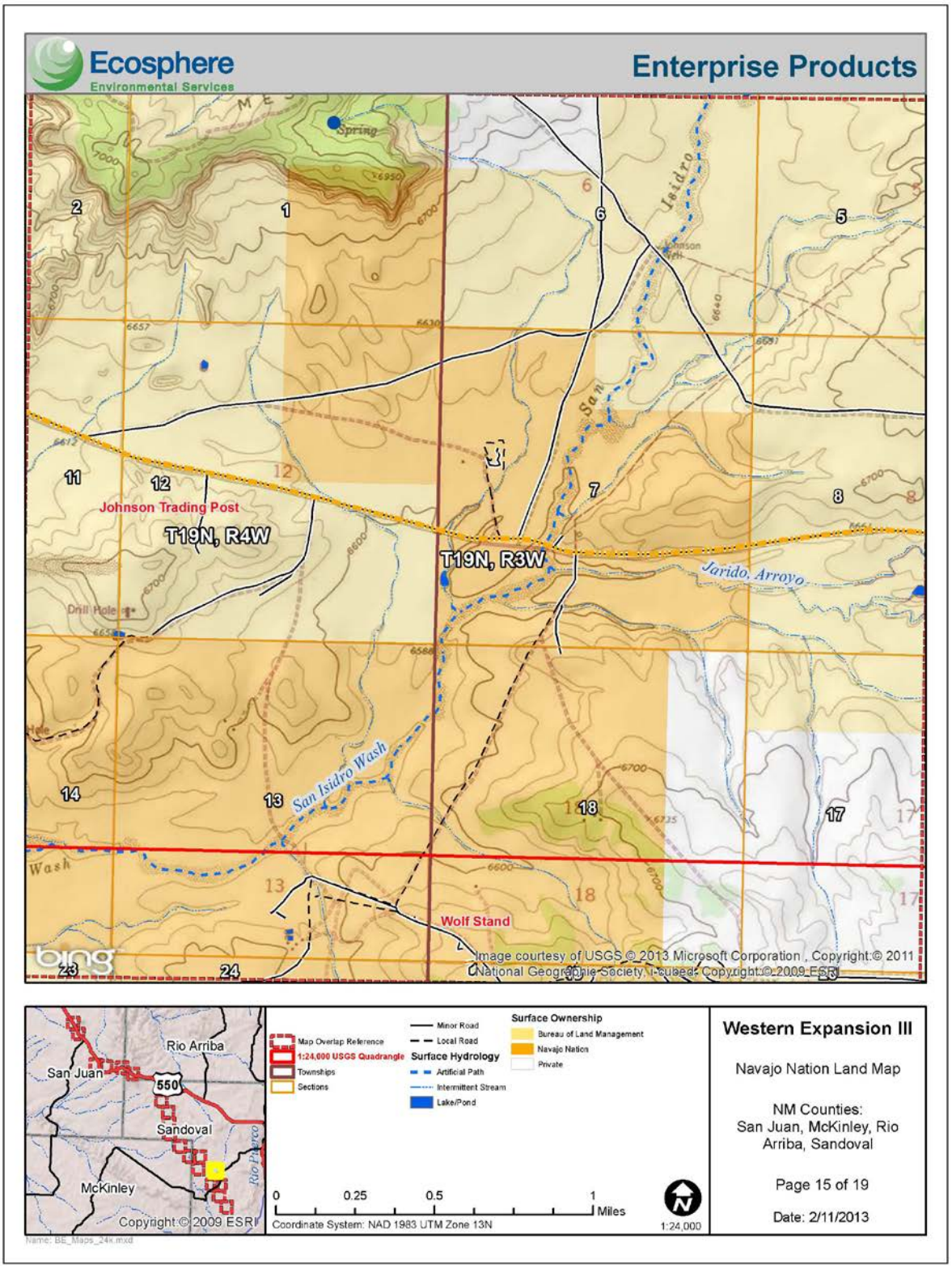


Figure 19: Page 16 of 19 showing the proposed project on USGS 7.5-minute topographical map

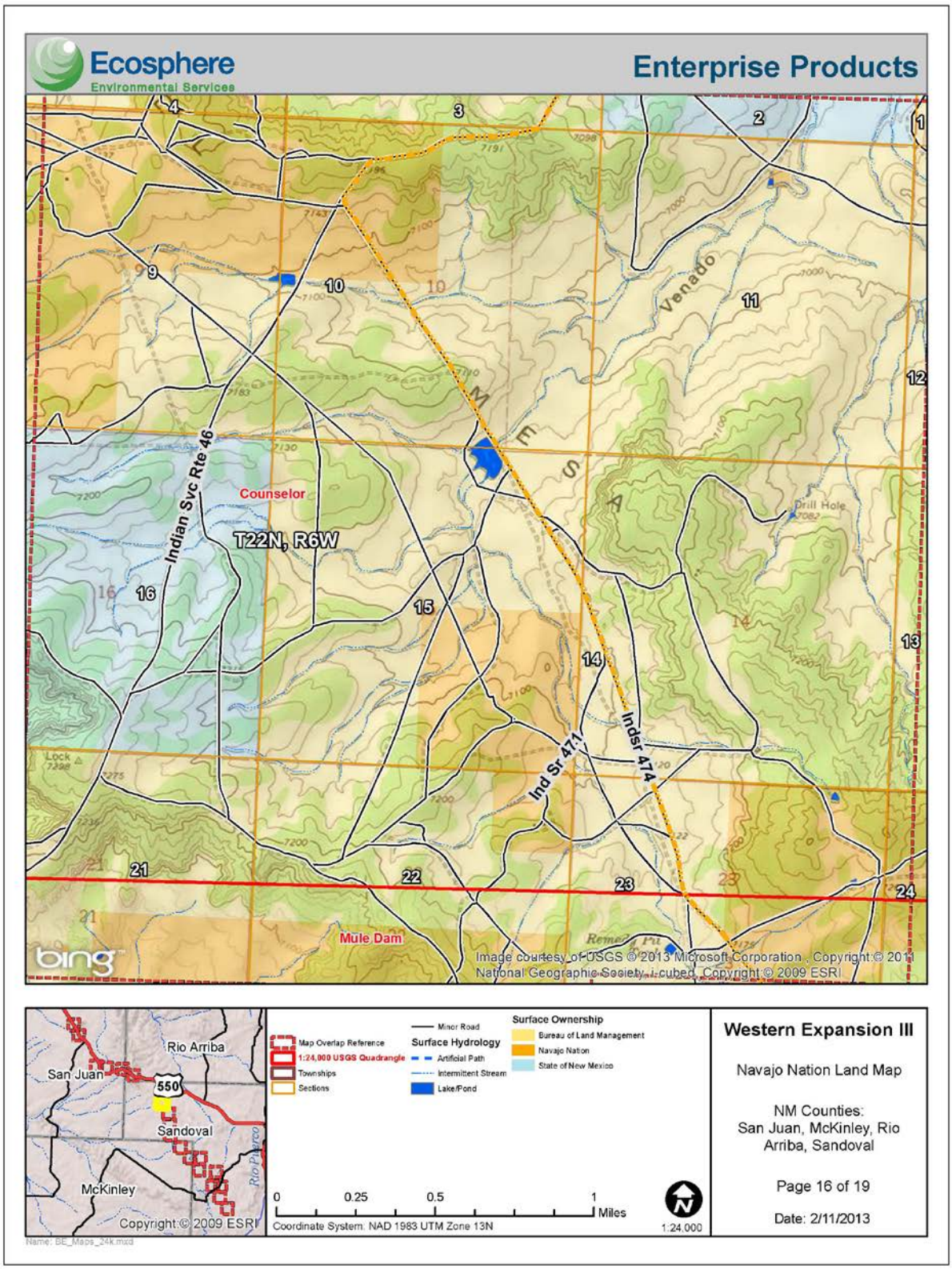


Figure 20: Page 17 of 19 showing the proposed project on USGS 7.5-minute topographical map

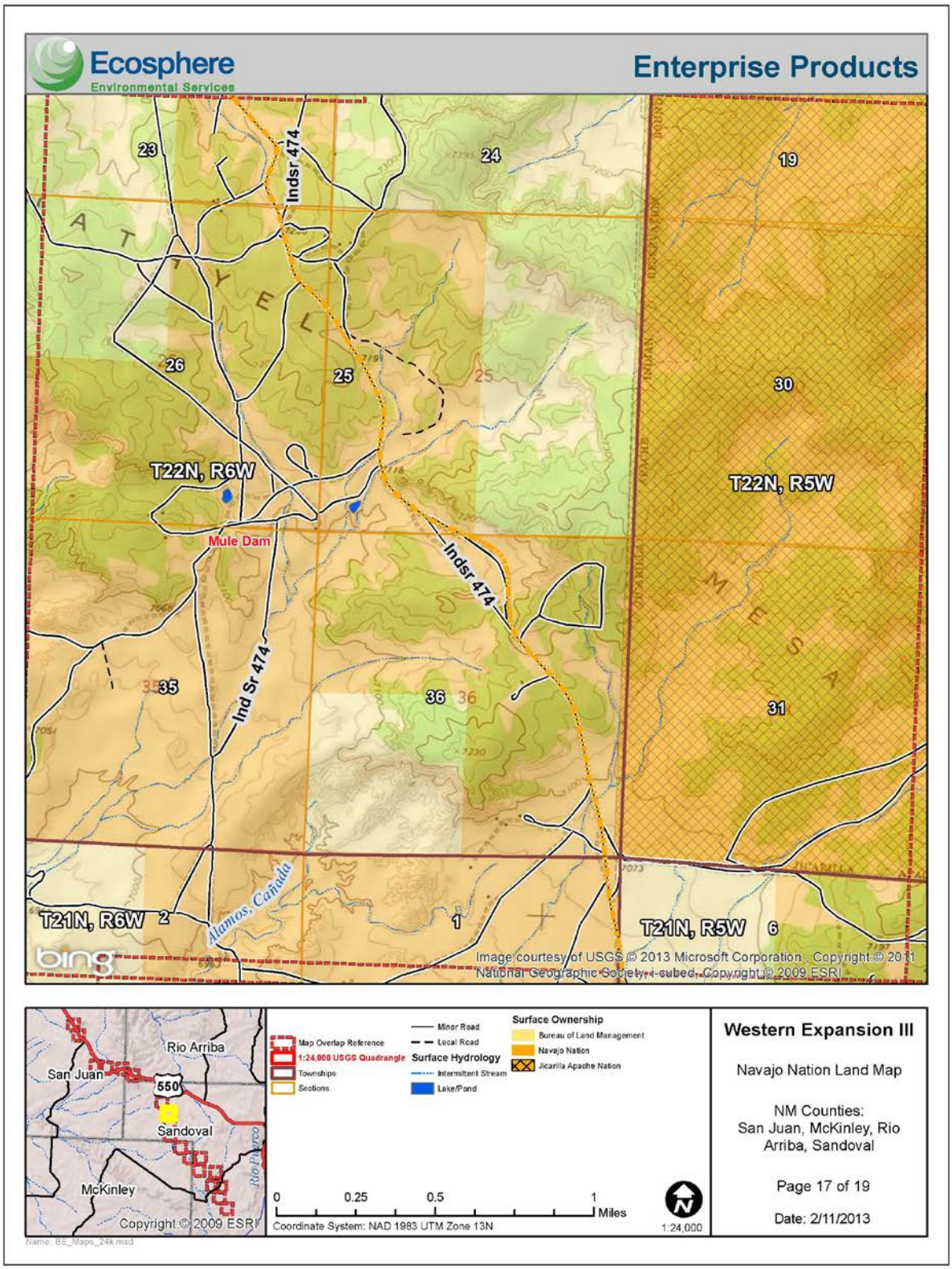


Figure 21: Page 18 of 19 showing the proposed project on USGS 7.5-minute topographical map

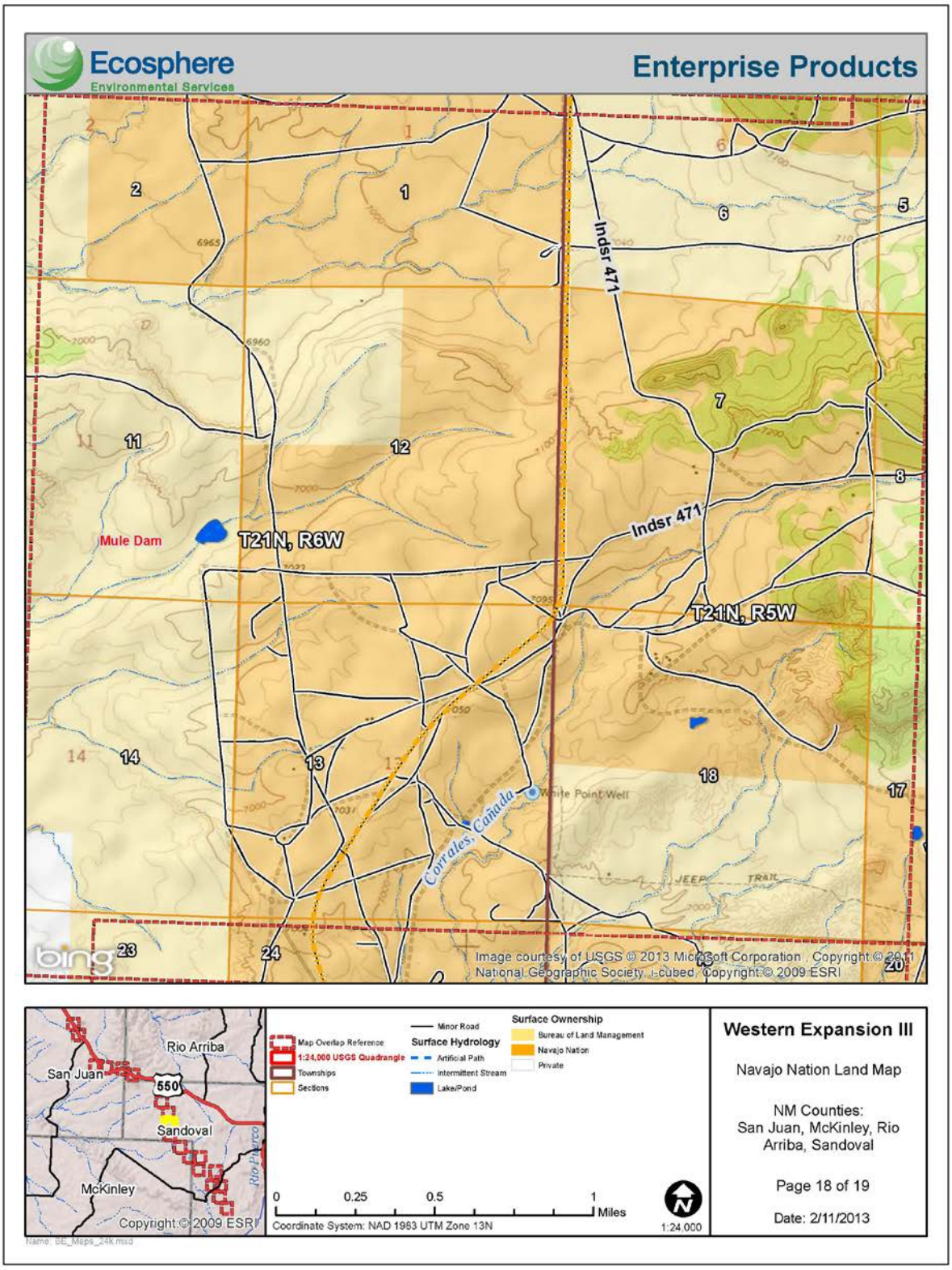
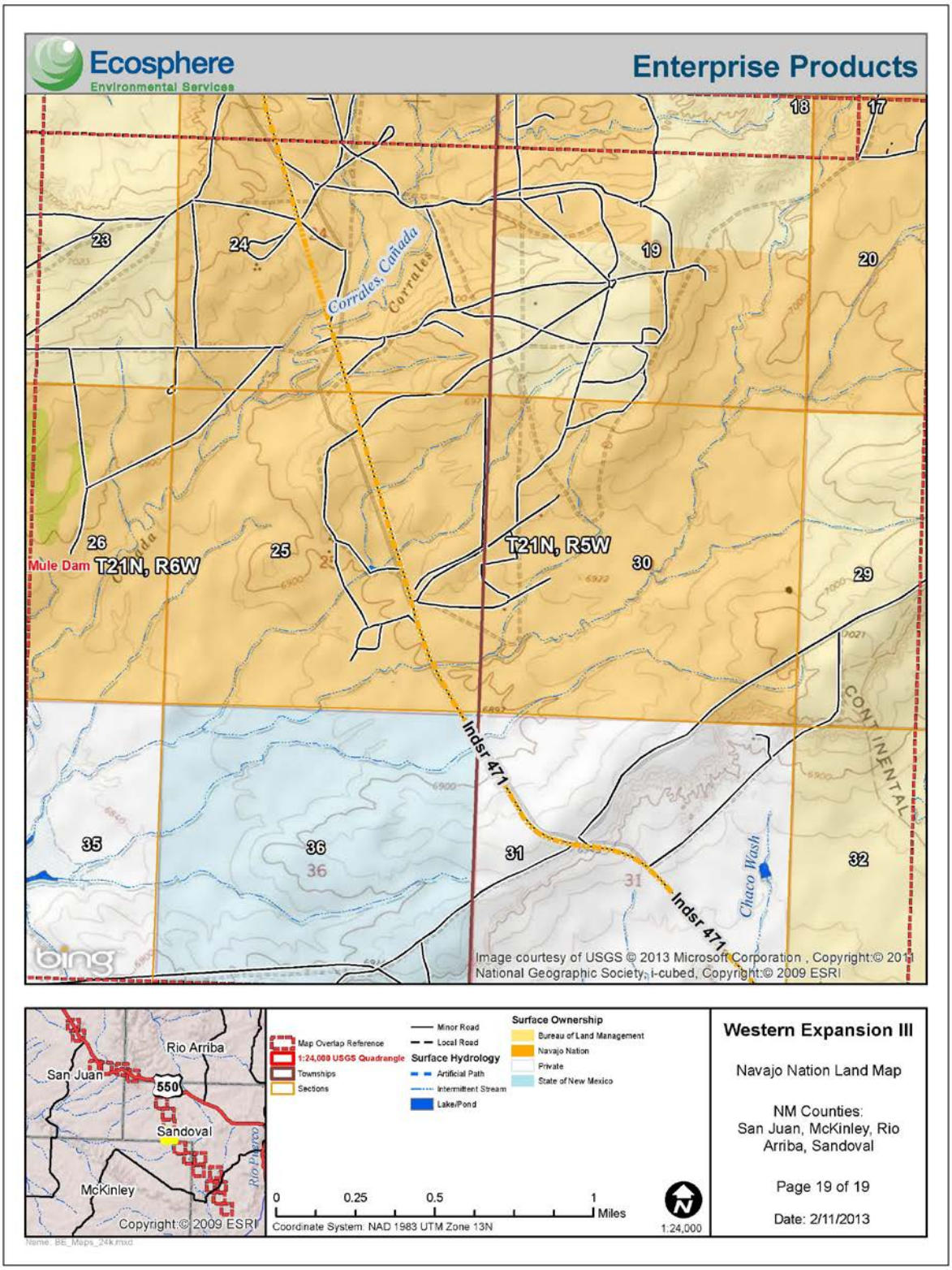


Figure 22: Page 19 of 19 showing the proposed project on USGS 7.5-minute topographical map



Appendix B: Plants and Wildlife Observed in the Proposed Project Area

SEGMENT 1

Scientific Name	Common Name
Trees	
Juniperus monosperma (Engelm.) Sarg.	oneseed juniper
Juniperus osteosperma (Torr.) Little	Utah Juniper
Pinus ponderosa Lawson & C. Lawson	ponderosa pine
Shrubs	
*Atriplex canescens (*Pursh) Nutt.	fourwing saltbush
Atriplex confertifolia (Torr & Frem.)	shadscale
Atriplex corrugata S. Wats.	mat saltbush
Atriplex cuneata A. Nelson ssp. *cuneata*	valley saltbush
Atriplex obovata Moq.	mound saltbush
Ephedra viridis Coville	Mormon tea
*Ericameria nauseosa (*Pall. ex Pursh) G.L. Nesom & Baird	rubber rabbitbrush
Sarcobatus vermiculatus (Hook.) Torr.	greasewood
Artemisia tridentata Nutt.	big sagebrush
Chrysothamnus sp. Nutt.	rabbitbrush
Forbs	
Abronia fragrans Nutt. ex Hook.	snowball sand verbena
Aliciella formosa	Aztec gilia
Ambrosia sp. L.	ragweed
Astragalus micromerius Barneby	Chaco milkvetch
*Bassia americana (*S. Watson) A.J. Scott	green molly
Chaenactis stevioides Hook. & Arn.	chaenactis
Cryptantha crassisepala (Torr. & A. Gray) Greene	thicksepal cryptantha
Cymopterus purpurascens (A. Gray) M.E. Jones	widewing springparsley
Descurainia pinnata (Walter) Britton	western tansymustard
Erodium cicutarium (L.) L'Hér. ex Aiton	redstem stork's bill
Halogeton glomeratus (M. Bieb.) C.A. Mey.	saltlover
Oenothera pallida Lindl.	pale evening primrose
Phacelia crenulata Torr. ex S. Watson	cleftleaf wild heliotrope

Scientific Name	Common Name
Phlox caryophylla Wherry	love phlox
Salsola kali L.	Russian thistle
Sphaeralcea coccinea (Nutt.) Rydb.	scarlet globemallow
Streptanthella longirostris (S. Watson) Rydb.	longbeak streptanthella
Townsendia incana Nutt.	hoary Townsend daisy
Grasses	
Achnatherum hymenoides (Roem. & Schult.) Barkworth	Indian ricegrass
Bouteloua gracilis (Willd. ex Kunth) Lag. ex Griffiths	blue grama
Bromus tectorum L.	cheatgrass
Distichlis spicata (L.) Greene	saltgrass
Elymus elymoides (Raf.) Swezey ssp. *elymoides*	squirreltail
Pleuraphis jamesii Torr.	James' galleta
Sporobolus airoides (Torr.) Torr.	alkali sacaton
*Vulpia octoflora (*Walter) Rydb. *var. hirtella* (Piper) Henr.	sixweeks fescue
Cactus	
Coryphantha vivipara	spinystar
Opuntia polyacantha Haw.	plains pricklypear
Sclerocactus cloveriae var. brackii	Brack's hardwall cactus
Birds	
Amphispiza bilineata	black-throated sparrow
Aphelocoma californica	western scrub-jay
Carpodacus mexicanus	house finch
Chondestes grammacus	lark sparrow
Gymnorhinus cyanocephalus	pinyon jay
Mimus polyglottos	northern mockingbird
Passerina caerulea	blue grosbeak
Pipilo maculatus	spotted towhee
Piranga flava	hepatic tanager
Pooecetes gramineus	vesper sparrow
Psaltriparus minimus	bushtit
Salpinctes obsoletus	rock wren

Scientific Name	Common Name
Sayornis saya	Say's phoebe
Selasphorus platycercus	broad-tailed hummingbird
Sialia currucoides	mountain bluebird
Spizella passerina	chipping sparrow
Tachycineta thalassina	violet-green swallow
Tyrannus verticalis	western kingbird
Tyrannus vociferans	Cassin's kingbird
Mammals	
Canis latrans	coyote
Cervus elaphus nelson	elk
Cynomys gunnisoni	Gunnison’s prairie dog
Dipodomys spectabilis	banner-tailed kangaroo rat
Lepus californicus	black-tailed jackrabbit
Neotoma sp.	woodrat
Odocoileus hemionus	mule deer
Sylvilagus audubonii	desert cottontail
Taxidea taxus	American badger

SEGMENT 2

Scientific Name	Common Name
Trees	
Juniperus monosperma (Engelm.) Sarg.	oneseed juniper
Juniperus osteosperma (Torr.) Little	Utah juniper
Pinus edulis Engelm.	Two-needle pinyon
Quercus gambelii Nutt.	Gambel oak
Shrubs	
Allenrolfea occidentalis (S. Watson) Kuntze	iodinebush
Artemisia bigelovii A. Gray	bigelow sage
Artemisia filifolia Torr.	sand sagebrush
Artemisia ludoviciana Nutt. ssp. *albula* (Woot.) D.D. Keck	white sagebrush
Artemisia nova A. Nelson	black sagebrush
Artemisia tridentata Nutt.	big sagebrush
Atriplex canescens (Pursh) Nutt.	fourwing saltbrush
Atriplex confertifolia (Torr. & Frém.) Watson	shadscale saltbush
Atriplex corrugata S. Watson	mat saltbush
Atriplex obovata Moq.	mound saltbush
Brickellia microphylla (Nutt.) A. Gray	littleleaf brickellbush
Chrysothamnus sp. Nutt.	rabbitbrush
Chrysothamnus greenei (A. Gray) Greene	Greene's rabbitbrush
Ephedra sp. L.	jointfir
Ephedra torreyana S. Watson	Torrey's jointfir
Ericameria greenei (A. Gray) G.L. Nesom	Greene's goldenbush
Ericameria nauseosa (Pall. ex Pursh) Nesom & Baird	rubber rabbitbrush
Eriogonum corymbosum Benth.	crispleaf buckwheat
Eriogonum jamesii Benth.	James' buckwheat
Eriogonum leptophyllum (Torr.& Gray) Woot. & Standl.	slenderleaf buckwheat
Gutierrezia microcephala (DC.) A. Gray	threadleaf snakeweed
Gutierrezia sarothrae (Pursh) Britton & Rusby	broom snakeweed
Krascheninnikovia lanata (Pursh) A. Meeuse & Smit	winterfat
Lycium sp.	wolfberry

Scientific Name	Common Name
Lycium pallidum Miers	pale desert-thorn
Psorothamnus scoparius (A. Gray) Rydb.	broom dalea
Quercus pauciloba Rydb. (pro sp.) *[gambelii* × *turbinella*]	oak
Rhus trilobata Nutt.	skunkbush sumac
Sarcobatus vermiculatus (Hook.) Torr.	greasewood
Senecio flaccidus Less.	threadleaf ragwort
Tetradymia sp. DC.	horsebrush
Forbs	
Abronia bigelovii Heimerl	Galisteo sand verbena
Abronia fragrans Nutt. ex Hook.	snowball sand verbena
Amaranthus blitoides S. Watson	mat amaranth
Ambrosia acanthicarpa Hook.	flatspine bur ragweed
Ambrosia psilostachya DC.	cuman ragweed
Arenaria sp.	sandwort
Artemisia dracunculus L.	tarragon
Artemisia frigida Willd.	prairie sagewort
Asclepias asperula (Decne.) Woodson	spider milkweed
Asclepias uncialis Greene	wheel milkweed
Astragalus kentrophyta A. Gray	spiny milkvetch
Astragalus mollissimus Torr.	wooly locoweed
Atriplex saccaria S. Watson	sack saltbush
Baileya multiradiata Harv. & A. Gray ex A. Gray	desert marigold
Bassia scoparia (L.) A.J. Scott	burningbush
Boerhavia spicata Choisy	creeping spiderling
Calylophus hartwegii (Benth.) P.H. Raven	Hartweg's sundrops
Cardaria draba (L.) Desv.	whitetop
Castilleja angustifolia (Nutt.) G. Don	NW Indian paintbrush
Chaenactis stevioides Hook. & Arn.	Esteve's pincushion
Chaetopappa ericoides (Torr.) G.L. Nesom	rose heath
Chamaesyce fendleri (Torr. & A. Gray) Small	Fendler’s sandmat
Chamaesyce serpyllifolia (Pers.) Small	thymeleaf sandmat

Scientific Name	Common Name
Chenopodium sp. L.	goosefoot
Cleome serrulata Pursh	Rocky Mountain beeplant
Cordylanthus wrightii A. Gray	Wright's bird's beak
Croton texensis (Klotzsch) Müll. Arg.	Texas croton
Cryptantha cinerea (Greene) Cronquist	James' cryptantha
Dalea candida Michx. ex Willd.	white prairie clover
Delphinium scaposum Greene	tall mountain larkspur
Erigeron flagellaris A. Gray	trailing fleabane
Eriogonum cernuum Nutt.	nodding buckwheat
Eriogonum microthecum Nutt.	slender buckwheat
Eriogonum rotundifolium Benth.	roundleaf buckwheat
Evolvulus sericeus Sw.	silver dwarf morning-glory
Gaillardia pinnatifida Torr.	red dome blanketflower
Gaura coccinea Nutt. ex Pursh	scarlet beeblossom
Grindelia squarrosa (Pursh) Dunal	curlycup gumweed
Gutierrezia sarothrae (Pursh) Britton & Rusby	broom snakeweed
Halogeton glomeratus (M. Bieb.) C.A. Mey.	saltlover
Heliotropium convolvulaceum (Nutt.) A. Gray	phlox heliotrope
Heterotheca villosa (Pursh) Shinners	hairy false goldenaster
Hoffmannseggia drepanocarpa A. Gray	sicklepod holdback
Hymenopappus L'Hér.	hymenopappus
Hymenoxys odorata DC.	bitter rubberweed
Hymenoxys richardsonii (Hook.) Cockerell	pingue rubberweed
Isocoma rusbi Greene	Rusby's goldenbush
Kallstroemia parviflora J.B.S. Norton	warty caltrop
Lappula sp. Moench	stickweed
Leptodactylon sp. Hook. & Arn	pricklyphlox
Lesquerella fendleri (A. Gray) S. Watson	Fendler's bladderpod
Linanthus pungens (Torr.)Porter & Johnson	granite prickly phlox
Lygodesmia grandiflora (Nutt.) Torr. & A. Gray	largeflower skeletonplant
Machaeranthera canescens (Pursh) A. Gray	hoary tansyaster

Scientific Name	Common Name
Machaeranthera gracilis (Nutt.) Shinners	slender goldenweed
Malva sp. L.	mallow
Melampodium leucanthum Torr. & A. Gray	plains blackfoot
Melilotus officinalis (L.) Lam.	yellow sweetclover
Mentzelia multiflora (Nutt.) A. Gray	adonis blazingstar
Mentzelia perennis Woot.	perennial blazingstar
Mentzelia pumila Nutt. ex Torr. & A. Gray	dwarf mentzelia
Mirabilis L.	four o'clock
Mirabilis multiflora (Torr.) A. Gray	Colorado four o'clock
Oenothera L.	evening primrose
Palafoxia sphacelata (Nutt. ex Torr.) Cory	othake
Parryella filifolia Torr. & A. Gray ex A. Gray	common dunebroom
Pectis angustifolia Torr.	lemonscent
Phacelia Juss.	phacelia
Phemeranthus confertiflorus (Greene) Hershkovitz	New Mexico fameflower
Physaria sp. (Nutt. ex Torr. & A. Gray) A. Gray	twinpod
Plantago patagonica Jacq	wooly plantain
Polygala alba Nutt.	white milkwort
Portulaca oleracea L.	little hogweed
Proboscidea parviflora (Woot.) Woot. & Standl.	doubleclaw
Psilostrophe tagetina (Nutt.) Greene	woolly paperflower
Psoralidium lanceolatum (Pursh) Rydb.	lemon scurfpea
Psoralidium sp. Rydb.	scurfpea
Salsola tragus L.	prickly Russian thistle
Sanvitalia abertii A. Gray	Abert's creeping zinnia
Scabrethia scabra (Hook.) W.A. Weber	badlands mule-ears
Senecio sp.L.	ragwort
Sisymbrium sp. L.	hedgemustard
Solanum elaeagnifolium Cav.	silverleaf nightshade
Sphaeralcea coccinea (Nutt.) Rydb.	scarlett globemallow
Sphaeralcea polychroma La Duke	hot springs globemallow
Stephanomeria exigua Nutt.	small wirelettuce

Scientific Name	Common Name
Stephanomeria pauciflora (Torr.) A. Nelson	brownplume wirelettuce
Suaeda moquinii (Torr.) Greene	Mojave seablite
Tetraneuris ivesiana Greene	Ives' fournerved daisy
Tetraneuris sp. Greene	four-nerve daisy
Thelesperma megapotamicum (Spreng.) Kuntze	Hopi tea greenthread
Tiquilia latior (I.M. Johnst.) A.T. Richardson	matted crinklemat
Townsendia annua Beaman	annual townsend daisy
Townsendia incana Nutt.	hoary townsend daisy
Verbesina encelioides (Cav.) Benth. & Hook. f.exGray	golden crownbeard
Vulpia octoflora (Walter) Rydb.	sixweeks fescue
Xanthium strumarium L.	rough cocklebur
Grasses	
Achnatherum hymenoides (Roem. & Schult.) Barkworth	Indian ricegrass
Agropyron cristatum (L.) Gaertn.	crested wheatgrass
Aristida purpurea Nutt.	purple threeawn
Bouteloua barbata Lag.	sixweeks grama
Bouteloua curtipendula (Michx.) Torr.	sideoats grama
Bouteloua eriopoda (Torr.) Torr.	black grama
Bouteloua gracilis (Willd. ex Kunth) Lag. ex Griffiths	blue grama
Dasyochloa pulchella (Kunth) Willd. ex Rydb	low woollygrass
Distichlis spicata (L.) Greene	saltgrass
Echinochloa muricata (P. Beauv.) Fernald	rough barnyardgrass
Elymus trachycaulus (Link) Gould	slender wheatgrass
Hesperostipa comata (Trin. & Rupr.) Barkworth ssp. comata	needle and thread
Muhlenbergia asperifolia (Nees & Meyen ex Trin.) Parodi	scratchgrass
Muhlenbergia torreyi Schreb.	ring muhly
Nolina sp.Michx.	beargrass
Panicum obtusum Kunth	vine mesquite
Pascopyrum smithii (Rydb.) Á. Löve	western wheatgrass
Phragmites australis (Cav.) Trin. ex Steud.	common reed

Scientific Name	Common Name
Pleuraphis jamesii Torr.	James' galleta
Schizachyrium scoparium (Michx.) Nash	little bluestem
Schoenoplectus americanus (Pers.) Volkart ex Schinz & R. Keller	chairmaker's bulrush
Sporobolus airoides Torr.	alkali sacaton
Sporobolus contractus Hitchc.	spike dropseed
Sporobolus cryptandrus (Torr.) A. Gray	sand dropseed
Sporobolus nealleyi Vasey	gyp dropseed
Sporobolus wrightii Munro ex Scribn.	big sacaton
Tragus berteronianus Schult.	spiked bur grass
Triglochin concinna Burtt Davy	slender arrowgrass
Cactus	
Cylindropuntia imbricata (Haw.) F.M. Knuth	tree cholla
Echinocereus coccineus Engelm. var. *coccineus*	scarlet hedgehog cactus
Echinocereus triglochidiatus Engelm.	kingcup cactus
Escobaria vivipara (Nutt.) Buxbaum	spinystar
Grusonia clavata (Engelm.) H. Rob.	club cholla
Lycium pallidum Miers.	pale desert-thorn
Opuntia phaeacantha Engelm.	tulip pricklypear
Opuntia polyacantha Haw.	plains pricklypear
Yucca angustissima Engelm. ex Trel.	narrowleaf yucca
Reptiles	
Cnemidophorus sp.	whiptail lizard
Sceloporus graciosus	sagebrush lizard
Birds	
Amphispiza belli nevadensis	sage sparrow
Buteo jamaicensis	red-tailed hawk
Callipepla gambelii	Gambel's quail
Chondestes grammacus	lark sparrow
Corvus corax	common raven
Mammals	
Antilocapra americana	pronghorn

Scientific Name	Common Name
Canis latrans	coyote
Cervus elaphus nelson	elk
Cynomys gunnisoni	Gunnison's prairie dog
Dipodomys spectabilis	bannertail kangaroo rat
Erethizon dorsatum	common porcupine
Lepus californicus	black-tailed jackrabbit
Neotoma sp.	woodrat
Sylvilagus audubonii	desert cottontail

Appendix C: Navajo Natural Heritage Program, Species of Concern Consultation Letter

NNHP
Navajo Natural Heritage Program

PO Box 1480
Window Rock, AZ
86515

P 928.871.6472
F 928.871.7603

http://nnhp.ndfw.org

12ees101

29-November-2012

Theresa Ancell
Ecosphere Environmental Services
4801 N. Butler, Suite 15101
Farmington, NM 87401

SUBJECT: Western Expansion Project (WEP) III Pipeline Looping Project

Ms. Theresa Ancell,

NNHP has performed an analysis of your project in comparison to known biological resources of the Navajo Nation and has included the findings in this letter. The letter is composed of seven parts. The sections as they appear in the letter are:

1. **Known Species** – a list of all species within relative proximity to the project
2. **Potential Species** – a list of potential species based on project proximity to respective suitable habitat
3. **Quadrangles** – an exhaustive list of quads containing the project
4. **Project Summary** – a categorized list of biological resources within relative proximity to the project grouped by individual project site(s) or quads
5. **Conditional Criteria Notes** – additional details concerning various species, habitat, etc.
6. **Personnel Contacts** – a list of employee contacts
7. **Resources** – identifies sources for further information

Known Species lists "species of concern" known to occur within proximity to the project area. Planning for avoidance of these species is expected. If no species are displayed then based upon the records of the Navajo Nation Department of Fish and Wildlife (NNDFW) there are no "species of concern" within proximity to the project. Refer to the Navajo Endangered Species List (NESL) Species Accounts for recommended avoidance measures, biology, and distribution of NESL species on the Navajo Nation (http://nnhp.ndfw.org/sp_account.htm).

Potential Species lists species that are potentially within proximity to the project area and need to be evaluated for presence/absence. If no species are found within the Known or Potential Species lists, the project is not expected to affect any federally listed species, nor significantly impact any tribally listed species or other species of concern. Potential for species has been determined primarily on habitat characteristics and species range information. A thorough habitat analysis, and if necessary, species specific surveys, are required to determine the potential for each species.

Species of concern include protected, candidate, and other rare or otherwise sensitive species, including certain native species and species of economic or cultural significance. For legally protected species, the following tribal and federal statuses are indicated: NESL, federal Endangered Species Act (ESA), Migratory Bird Treaty Act (MBTA), and Eagle Protection Act (EPA). No legal protection is afforded species with only ESA candidate, NESL group 4 status, and species listed on the Sensitive Species List. Please be aware of

these species during surveys and inform the NNDFW of observations. Reported observations of these species and documenting them in project planning and management is important for conservation and may contribute to ensuring they will not be up listed in the future.

In any and all correspondence with NNDFW or NNHP concerning this project please cite the Data Request Code associated with this document. It can be found in this report on the top right corner of the every page. Additionally please cite this code in any biological evaluation documents returned to our office.

1. Known Species

(NESL=Navajo Endangered Species List, FE=Federally Endangered, FT=Federally Threatened, FC=Federal Candidate)

Species

ALFO = Aliciella formosa / Aztec Gilia NESL G4
AQCH = Aquila chrysaetos / Golden Eagle NESL G3
ASSA = Asclepias sanjuanensis / San Juan Milkweed NESL G4
CHMO = Charadrius montanus / Mountain Plover NESL G4
SCCLBR = Sclerocactus cloveriae ssp. brackii / Brack Hardwall Cactus NESL G4
**All or parts of this project currently are within areas protected by the Golden and Bald Eagle Nest Protection Regulations; consult with NNDFW zoologist or EA Reviewer for more information and recommendations.

2. Potential Species

Species

ALFO = Aliciella formosa / Aztec Gilia NESL G4
AQCH = Aquila chrysaetos / Golden Eagle NESL G3
ASSA = Asclepias sanjuanensis / San Juan Milkweed NESL G4
ATCU = Athene cunicularia / Burrowing Owl NESL G4
BURE = Buteo regalis / Ferruginous Hawk NESL G3
CHMO = Charadrius montanus / Mountain Plover NESL G4
CIME = Cinclus mexicanus / American Dipper NESL G3
EMTREX = Empidonax traillii extimus / Southwestern Willow Flycatcher NESL G2 FE
FAPE = Falco peregrinus / Peregrine Falcon NESL G4
HALE = Haliaeetus leucocephalus / Bald Eagle NESL G2
LIPI = Lithobates pipiens / Northern Leopard Frog NESL G2
MUNI = Mustela nigripes / Black-footed Ferret NESL G2 FE
SCCLBR = Sclerocactus cloveriae ssp. brackii / Brack Hardwall Cactus NESL G4
VUMA = Vulpes macrotis / Kit Fox NESL G4

3. Quadrangles (7.5 Minute)

Quadrangles

Arroyo Empedrado (35107-F2) / NM
Blanco Trading Post (36107-C7) / NM
Bloomfield (36107-F8) / NM
Counselor (36107-B4) / NM
Crow Mesa East (36107-C5) / NM
Crow Mesa West (36107-C6) / NM

East Fork Kutz Canyon (36107-E8) / NM
Huerfano Trading Post (36107-D7) / NM
Huerfano Trading Post NW (36107-D8) / NM
Johnson Trading Post (35107-H2) / NM
Lybrook (36107-B5) / NM
Mule Dam (36107-A4) / NM
Ojo Encino Mesa (35107-H3) / NM
San Luis (35107-F1) / NM
Star Lake (35107-H4) / NM
Tinian (35107-G3) / NM
Wolf Stand (35107-G2) / NM

4. Project Summary

(EO1 Mile/EO 3 Miles=elements occuring within 1 & 3 miles., MSO=mexican spotted owl PACs, POTS=potential species, RCP=Biological Areas)

SITE	EO 1 Mile	EO 3 Miles	QUAD	MSO	POTS	RCP
C.A. #1	None	None	Lybrook (36107-B5) / NM	None	ASSA, ALFO, FAPE, CHMO, AQCH	None
C.A. #10	AQCH	AQCH	Crow Mesa East (36107-C5) / NM	None	FAPE, CHMO, ATCU, AQCH	Area 3
C.A. #11	None	AQCH	Crow Mesa West (36107-C6) / NM	None	ASSA, ALFO, FAPE, CHMO, ATCU, AQCH	Area 3
C.A. #12	None	AQCH	Crow Mesa West (36107-C6) / NM	None	ASSA, ALFO, FAPE, CHMO, BURE, ATCU, AQCH	Area 3
C.A. #13	None	AQCH	Crow Mesa West (36107-C6) / NM	None	ASSA, ALFO, FAPE, CHMO, BURE, ATCU, AQCH	Area 3
C.A. #14	None	None	Crow Mesa West (36107-C6) / NM	None	ASSA, ALFO, FAPE, CHMO, ATCU, AQCH	Area 3
C.A. #14A	None	None	Crow Mesa West (36107-C6) / NM	None	ASSA, ALFO, FAPE, CHMO, ATCU, AQCH	Area 3
C.A. #15A	None	None	Blanco Trading Post (36107-C7) / NM	None	ASSA, ALFO, EMTREX, CHMO, BURE, ATCU, AQCH	Area 3

12ees101

C.A. #15B	None	None	Blanco Trading Post (36107-C7) / NM	None	ASSA, ALFO, EMTREX, CHMO, BURE, ATCU, AQCH	Area 3
C.A. #16	None	None	Huerfano Trading Post (36107-D7) / NM	None	SCCLBR, ASSA, ALFO, VUMA, FAPE, CHMO, BURE, ATCU, AQCH	Area 3
C.A. #17	None	None	Huerfano Trading Post (36107-D7) / NM	None	SCCLBR, ASSA, ALFO, VUMA, FAPE, CHMO, BURE, ATCU, AQCH	Area 3
C.A. #18	None	AQCH	Huerfano Trading Post (36107-D7) / NM	None	SCCLBR, ASSA, ALFO, VUMA, FAPE, CHMO, ATCU, AQCH	Area 3
C.A. #19	None	AQCH	Huerfano Trading Post (36107-D7) / NM	None	SCCLBR, ASSA, ALFO, FAPE, CHMO, BURE, ATCU, AQCH	Area 3
C.A. #2	None	AQCH	Lybrook (36107-B5) / NM	None	ASSA, ALFO, FAPE, CHMO, AQCH	None
C.A. #20	None	AQCH	Huerfano Trading Post (36107-D7) / NM	None	SCCLBR, ASSA, ALFO, VUMA, FAPE, CHMO, BURE, ATCU, AQCH	Area 3
C.A. #21	None	AQCH	Huerfano Trading Post (36107-D7) / NM	None	SCCLBR, ASSA, ALFO, VUMA, FAPE, CHMO, BURE, ATCU, AQCH	Area 3
C.A. #22	None	AQCH	Huerfano Trading Post (36107-D7) / NM	None	SCCLBR, ASSA, ALFO, VUMA, FAPE, CHMO, BURE, ATCU, AQCH	Area 3
C.A. #23	None	AQCH	Huerfano Trading Post NW (36107-D8) / NM	None	SCCLBR, ASSA, ALFO, VUMA, MUNI, EMTREX, CHMO, BURE, ATCU, AQCH	Area 3
C.A. #24	None	AQCH	Huerfano Trading Post NW (36107-D8) / NM	None	SCCLBR, ASSA, ALFO, VUMA, MUNI, EMTREX, CHMO, BURE, ATCU, AQCH	Area 3
C.A. #25	None	None	Huerfano Trading Post NW (36107-D8) / NM	None	SCCLBR, ASSA, ALFO, VUMA, EMTREX, CHMO, BURE, ATCU, AQCH	Area 3

12ees101

C.A. #26	None	None	Huerfano Trading Post NW (36107-D8) / NM	None	SCCLBR, ASSA, ALFO, VUMA, EMTREX, CHMO, BURE, ATCU, AQCH	Area 3
C.A. #27	None	None	Huerfano Trading Post NW (36107-D8) / NM	None	SCCLBR, ASSA, ALFO, VUMA, MUNI, EMTREX, CHMO, BURE, ATCU, AQCH	Area 3
C.A. #28	None	SCCLBR	East Fork Kutz Canyon (36107-E8) / NM	None	SCCLBR, ASSA, ALFO, VUMA, MUNI, FAPE, EMTREX, CHMO, BURE, ATCU, AQCH	Area 3
C.A. #29	None	ALFO, SCCLBR	East Fork Kutz Canyon (36107-E8) / NM	None	SCCLBR, ASSA, ALFO, VUMA, MUNI, FAPE, EMTREX, CHMO, BURE, ATCU, AQCH	Area 3
C.A. #3	None	AQCH	Lybrook (36107-B5) / NM	None	ASSA, ALFO, FAPE, CHMO, AQCH	None
C.A. #30	None	ALFO, SCCLBR	East Fork Kutz Canyon (36107-E8) / NM	None	SCCLBR, ASSA, ALFO, VUMA, MUNI, FAPE, EMTREX, CHMO, BURE, ATCU, AQCH	Area 3
C.A. #31	None	ASSA, ALFO, SCCLBR	East Fork Kutz Canyon (36107-E8) / NM	None	SCCLBR, ASSA, ALFO, VUMA, MUNI, FAPE, EMTREX, CHMO, BURE, ATCU, AQCH	Area 3
C.A. #32	None	ASSA, ALFO	East Fork Kutz Canyon (36107-E8) / NM	None	SCCLBR, ASSA, ALFO, VUMA, MUNI, FAPE, EMTREX, CHMO, BURE, ATCU, AQCH	Area 3
C.A. #33	None	ASSA, ALFO	East Fork Kutz Canyon (36107-E8) / NM	None	SCCLBR, ASSA, ALFO, VUMA, MUNI, FAPE, EMTREX, CHMO, BURE, ATCU, AQCH	Area 3
C.A. #34	None	ASSA, ALFO	East Fork Kutz Canyon (36107-E8) / NM	None	SCCLBR, ASSA, ALFO, MUNI, FAPE, EMTREX, CHMO, BURE, ATCU, AQCH	Area 3

12ees101

C.A. #35	None	ASSA, ALFO	East Fork Kutz Canyon (36107-E8) / NM	None	SCCLBR, ASSA, ALFO, FAPE, EMTREX, CHMO, BURE, ATCU, AQCH	Area 3
C.A. #36	None	ALFO	East Fork Kutz Canyon (36107-E8) / NM	None	SCCLBR, ASSA, ALFO, FAPE, EMTREX, CHMO, BURE, ATCU, AQCH	Area 3
C.A. #37	None	ALFO	East Fork Kutz Canyon (36107-E8) / NM	None	SCCLBR, ASSA, ALFO, FAPE, EMTREX, CHMO, BURE, ATCU, AQCH	Area 3
C.A. #38	None	ALFO	East Fork Kutz Canyon (36107-E8) / NM	None	SCCLBR, ASSA, ALFO, FAPE, EMTREX, CHMO, BURE, ATCU, AQCH	Area 3
C.A. #39	None	ALFO	East Fork Kutz Canyon (36107-E8) / NM	None	SCCLBR, ASSA, ALFO, FAPE, EMTREX, CHMO, BURE, ATCU, AQCH	Area 3
C.A. #4	None	AQCH	Lybrook (36107-B5) / NM	None	ASSA, ALFO, FAPE, CHMO, AQCH	None
C.A. #40	None	ALFO	East Fork Kutz Canyon (36107-E8) / NM	None	SCCLBR, ASSA, ALFO, FAPE, EMTREX, CHMO, BURE, ATCU, AQCH	Area 3
C.A. #41	None	ALFO	East Fork Kutz Canyon (36107-E8) / NM	None	SCCLBR, ASSA, ALFO, FAPE, EMTREX, CHMO, BURE, ATCU, AQCH	Area 3
C.A. #42	None	ALFO	East Fork Kutz Canyon (36107-E8) / NM	None	SCCLBR, ASSA, ALFO, FAPE, EMTREX, CHMO, BURE, ATCU, AQCH	Area 3
C.A. #43	None	ALFO	Bloomfield (36107-F8) / NM	None	SCCLBR, ASSA, ALFO, LIPI, EMTREX, CIME, CHMO, BURE, ATCU, AQCH	Area 3
C.A. #44	None	None	Bloomfield (36107-F8) / NM	None	SCCLBR, ASSA, ALFO, LIPI, EMTREX, CIME, CHMO, BURE, ATCU, AQCH	Area 3

Page 6 of 18

12ees101

C.A. #45	None	None	Bloomfield (36107-F8) / NM	None	SCCLBR, ASSA, ALFO, LIPI, EMTREX, CIME, CHMO, BURE, ATCU, AQCH	Area 3
C.A. #46	None	None	Bloomfield (36107-F8) / NM	None	SCCLBR, ASSA, ALFO, LIPI, EMTREX, CIME, CHMO, BURE, ATCU, AQCH	Area 3
C.A. #47	None	None	Bloomfield (36107-F8) / NM	None	SCCLBR, ASSA, ALFO, LIPI, EMTREX, CIME, CHMO, BURE, ATCU, AQCH	Area 3
C.A. #48	None	None	Bloomfield (36107-F8) / NM	None	SCCLBR, ASSA, ALFO, LIPI, EMTREX, CIME, CHMO, BURE, ATCU, AQCH	Area 3
C.A. #49	None	None	Bloomfield (36107-F8) / NM	None	SCCLBR, ASSA, ALFO, LIPI, EMTREX, CIME, CHMO, BURE, ATCU, AQCH	Area 3
C.A. #49A	None	None	Bloomfield (36107-F8) / NM	None	SCCLBR, ASSA, ALFO, LIPI, EMTREX, CIME, CHMO, BURE, ATCU, AQCH	Area 3
C.A. #5	None	AQCH	Lybrook (36107-B5) / NM	None	ASSA, ALFO, FAPE, CHMO, AQCH	None
C.A. #50	None	None	Bloomfield (36107-F8) / NM	None	SCCLBR, ASSA, ALFO, LIPI, EMTREX, CIME, CHMO, BURE, ATCU, AQCH	Area 3
C.A. #6	None	AQCH	Lybrook (36107-B5) / NM	None	ASSA, ALFO, FAPE, CHMO, AQCH	None
C.A. #7	AQCH	AQCH	Lybrook (36107-B5) / NM	None	ASSA, ALFO, FAPE, CHMO, ATCU, AQCH	Area 3
C.A. #8	AQCH	AQCH	Lybrook (36107-B5) / NM	None	ASSA, ALFO, FAPE, CHMO, ATCU, AQCH	Area 3
C.A. #9	AQCH	AQCH	Crow Mesa East (36107-C5) / NM	None	FAPE, CHMO, ATCU, AQCH	Area 3
CA #13	None	None	San Luis (35107-F1) / NM	None	None	None

Page 7 of 18

12ees101

CA #14	None	None	San Luis (35107-F1) / NM	None	None	None
CA #14A	None	None	San Luis (35107-F1) / NM	None	None	None
CA #15	None	None	San Luis (35107-F1) / NM	None	None	None
CA #16	None	None	San Luis (35107-F1) / NM	None	None	None
CA #17	None	None	San Luis (35107-F1) / NM	None	None	None
CA #18	None	None	San Luis (35107-F1) / NM	None	None	None
CA #19	None	None	Arroyo Empedrado (35107-F2) / NM, San Luis (35107-F1) / NM, Wolf Stand (35107-G2) / NM	None	ASSA, EMTREX, CHMO, BURE, AQCH	None
CA #20	None	None	San Luis (35107-F1) / NM	None	None	None
CA #21	None	None	Wolf Stand (35107-G2) / NM	None	ASSA, EMTREX, CHMO, BURE, AQCH	Area 3
CA #22	None	None	Wolf Stand (35107-G2) / NM	None	ASSA, EMTREX, CHMO, BURE, ATCU, AQCH	Area 3
CA #22A	None	None	Wolf Stand (35107-G2) / NM	None	ASSA, EMTREX, CHMO, BURE, ATCU, AQCH	Area 3
CA #22B	None	None	Wolf Stand (35107-G2) / NM	None	ASSA, EMTREX, CHMO, BURE, ATCU, AQCH	Area 3
CA #23	None	None	Wolf Stand (35107-G2) / NM	None	ASSA, EMTREX, CHMO, BURE, ATCU, AQCH	Area 3
CA #24	None	None	Wolf Stand (35107-G2) / NM	None	ASSA, EMTREX, CHMO, BURE, ATCU, AQCH	Area 3
CA #25	None	None	Wolf Stand (35107-G2) / NM	None	ASSA, EMTREX, CHMO, BURE, ATCU, AQCH	Area 3
CA #25A	None	None	Wolf Stand (35107-G2) / NM	None	ASSA, EMTREX, CHMO, BURE, ATCU, AQCH	Area 3
CA #26	None	None	Wolf Stand (35107-G2) / NM	None	ASSA, EMTREX, CHMO, BURE, ATCU, AQCH	Area 3

12ees101

CA #27	None	None	Wolf Stand (35107-G2) / NM	None	ASSA, EMTREX, CHMO, BURE, ATCU, AQCH	Area 3
CA #28	None	None	Wolf Stand (35107-G2) / NM	None	ASSA, EMTREX, CHMO, BURE, ATCU, AQCH	Area 3
CA #29	None	None	Wolf Stand (35107-G2) / NM	None	ASSA, EMTREX, CHMO, BURE, ATCU, AQCH	Area 3
CA #30	AQCH	AQCH	Johnson Trading Post (35107-H2) / NM, Ojo Encino Mesa (35107-H3) / NM	None	ASSA, ALFO, FAPE, EMTREX, CHMO, BURE, ATCU, AQCH	Area 3
CA #31	None	AQCH	Ojo Encino Mesa (35107-H3) / NM	None	ASSA, ALFO, FAPE, EMTREX, CHMO, BURE, ATCU, AQCH	Area 3
CA #31A	None	AQCH	Ojo Encino Mesa (35107-H3) / NM	None	ASSA, ALFO, FAPE, EMTREX, CHMO, BURE, ATCU, AQCH	Area 3
CA #32	None	None	Ojo Encino Mesa (35107-H3) / NM	None	ASSA, ALFO, FAPE, EMTREX, CHMO, BURE, ATCU, AQCH	Area 3
CA #33	None	CHMO	Ojo Encino Mesa (35107-H3) / NM	None	ASSA, ALFO, FAPE, EMTREX, CHMO, BURE, ATCU, AQCH	Area 3
CA #34	None	CHMO	Star Lake (35107-H4) / NM	None	ASSA, ALFO, VUMA, CHMO, BURE, ATCU, AQCH	Area 3
CA #35	None	CHMO	Counselor (36107-B4) / NM, Ojo Encino Mesa (35107-H3) / NM, Star Lake (35107-H4) / NM	None	ASSA, ALFO, VUMA, FAPE, EMTREX, CHMO, BURE, ATCU, AQCH	Area 3
HWY 279	None	None	San Luis (35107-F1) / NM	None	None	None
OJO ENCINO	None	AQCH, CHMO	Johnson Trading Post (35107-H2) / NM, Ojo Encino Mesa (35107-H3) / NM	None	ASSA, ALFO, FAPE, EMTREX, CHMO, BURE, ATCU, AQCH	Area 3

12ees101

SAN LOUIS TO TORREON CUTOFF 1	None	None	Wolf Stand (35107-G2) / NM	None	ASSA, EMTREX, CHMO, BURE, ATCU, AQCH	Area 3
SAN LOUIS TO TORREON CUTOFF 2	None	None	Wolf Stand (35107-G2) / NM	None	ASSA, EMTREX, CHMO, BURE, ATCU, AQCH	Area 3
SAN LOUIS TO TORREON CUTOFF 3	None	None	Wolf Stand (35107-G2) / NM	None	ASSA, EMTREX, CHMO, BURE, ATCU, AQCH	Area 3
SAN LOUIS TO TORREON CUTOFF 4	None	None	Arroyo Empedrado (35107-F2) / NM	None	EMTREX, CHMO, BURE, AQCH	None
SAN LOUIS TO TORREON CUTOFF 5	None	None	San Luis (35107-F1) / NM	None	None	None
SAN LOUIS TO TORREON CUTOFF 6	None	None	San Luis (35107-F1) / NM	None	None	None
SAN LOUIS TO TORREON CUTOFF 7	None	None	San Luis (35107-F1) / NM	None	None	None
SAN LOUIS TO TORREON CUTOFF 8	None	None	San Luis (35107-F1) / NM	None	None	None
SAN LOUIS TO TORREON CUTOFF 9	None	None	San Luis (35107-F1) / NM	None	None	None
Seg 1 CL 912	None	None	Blanco Trading Post (36107-C7) / NM	None	ASSA, ALFO, VUMA, MUNI, EMTREX, CHMO, BURE, ATCU, AQCH	Area 3
Seg 1 CL 912	None	ALFO	Bloomfield (36107-F8) / NM	None	SCCLBR, ASSA, ALFO, LIPI, EMTREX, CIME, CHMO, BURE, ATCU, AQCH	Area 3
Seg 1 CL 912	AQCH	AQCH	Crow Mesa East (36107-C5) / NM	None	FAPE, CHMO, ATCU, AQCH	Area 3
Seg 1 CL 912	None	AQCH	Crow Mesa West (36107-C6) / NM	None	ASSA, ALFO, FAPE, CHMO, BURE, ATCU, AQCH	Area 3
Seg 1 CL 912	None	ASSA, ALFO, SCCLBR	East Fork Kutz Canyon (36107-E8) / NM	None	SCCLBR, ASSA, ALFO, VUMA, MUNI, FAPE, EMTREX, CHMO, BURE, ATCU, AQCH	Area 3

12ees101

Seg 1 CL 912	None	AQCH	Huerfano Trading Post (36107-D7) / NM	None	SCCLBR, ASSA, ALFO, VUMA, MUNI, FAPE, CHMO, BURE, ATCU, AQCH	Area 3
Seg 1 CL 912	None	AQCH	Huerfano Trading Post NW (36107-D8) / NM	None	SCCLBR, ASSA, ALFO, VUMA, MUNI, EMTREX, CHMO, BURE, ATCU, AQCH	Area 3
Seg 1 CL 912	AQCH	AQCH	Lybrook (36107-B5) / NM	None	ASSA, ALFO, FAPE, CHMO, ATCU, AQCH	Area 3
Seg 1 Construct Access	None	None	Blanco Trading Post (36107-C7) / NM	None	ASSA, ALFO, VUMA, MUNI, EMTREX, CHMO, BURE, ATCU, AQCH	Area 3
Seg 1 Construct Access	None	ALFO	Bloomfield (36107-F8) / NM	None	SCCLBR, ASSA, ALFO, LIPI, HALE, EMTREX, CIME, CHMO, BURE, ATCU, AQCH	Area 3
Seg 1 Construct Access	AQCH	AQCH	Crow Mesa East (36107-C5) / NM	None	FAPE, CHMO, ATCU, AQCH	Area 3
Seg 1 Construct Access	None	AQCH	Crow Mesa West (36107-C6) / NM	None	ASSA, ALFO, FAPE, CHMO, BURE, ATCU, AQCH	Area 3
Seg 1 Construct Access	None	ASSA, ALFO, SCCLBR	East Fork Kutz Canyon (36107-E8) / NM	None	SCCLBR, ASSA, ALFO, VUMA, MUNI, FAPE, EMTREX, CHMO, BURE, ATCU, AQCH	Area 3
Seg 1 Construct Access	None	AQCH	Huerfano Trading Post (36107-D7) / NM	None	SCCLBR, ASSA, ALFO, VUMA, MUNI, FAPE, CHMO, BURE, ATCU, AQCH	Area 3
Seg 1 Construct Access	None	AQCH	Huerfano Trading Post NW (36107-D8) / NM	None	SCCLBR, ASSA, ALFO, VUMA, MUNI, EMTREX, CHMO, BURE, ATCU, AQCH	Area 3
Seg 1 Construct Access	AQCH	AQCH	Lybrook (36107-B5) / NM	None	ASSA, ALFO, FAPE, CHMO, ATCU, AQCH	Area 3
Seg 1 ETUA	None	None	Blanco Trading Post (36107-C7) / NM	None	ASSA, ALFO, VUMA, MUNI, EMTREX, CHMO, BURE, ATCU, AQCH	Area 3

Page 11 of 18

12ees101

Seg 1 ETUA	None	ALFO	Bloomfield (36107-F8) / NM	None	SCCLBR, ASSA, ALFO, LIPI, EMTREX, CIME, CHMO, BURE, ATCU, AQCH	Area 3
Seg 1 ETUA	AQCH	AQCH	Crow Mesa East (36107-C5) / NM	None	FAPE, CHMO, ATCU, AQCH	Area 3
Seg 1 ETUA	None	AQCH	Crow Mesa West (36107-C6) / NM	None	ASSA, ALFO, FAPE, CHMO, BURE, ATCU, AQCH	Area 3
Seg 1 ETUA	None	ASSA, ALFO, SCCLBR	East Fork Kutz Canyon (36107-E8) / NM	None	SCCLBR, ASSA, ALFO, VUMA, MUNI, FAPE, EMTREX, CHMO, BURE, ATCU, AQCH	Area 3
Seg 1 ETUA	None	AQCH	Huerfano Trading Post (36107-D7) / NM	None	SCCLBR, ASSA, ALFO, VUMA, MUNI, FAPE, CHMO, BURE, ATCU, AQCH	Area 3
Seg 1 ETUA	None	None	Huerfano Trading Post NW (36107-D8) / NM	None	SCCLBR, ASSA, ALFO, VUMA, EMTREX, CHMO, BURE, ATCU, AQCH	Area 3
Seg 1 ETUA	None	AQCH	Lybrook (36107-B5) / NM	None	ASSA, ALFO, FAPE, CHMO, AQCH	Area 3
Seg 2 CL	None	None	Arroyo Empedrado (35107-F2) / NM	None	EMTREX, CHMO, BURE, AQCH	None
Seg 2 CL	CHMO	AQCH, CHMO	Ojo Encino Mesa (35107-H3) / NM	None	ASSA, ALFO, VUMA, FAPE, EMTREX, CHMO, BURE, ATCU, AQCH	Area 3
Seg 2 CL	None	None	San Luis (35107-F1) / NM	None	None	None
Seg 2 CL	CHMO	CHMO	Star Lake (35107-H4) / NM	None	ASSA, ALFO, VUMA, CHMO, BURE, ATCU, AQCH	Area 3
Seg 2 CL	None	None	Tinian (35107-G3) / NM	None	ASSA, FAPE, EMTREX, CHMO, BURE, ATCU, AQCH	Area 3
Seg 2 CL	None	None	Wolf Stand (35107-G2) / NM	None	ASSA, EMTREX, CHMO, BURE, ATCU, AQCH	Area 3

12ees101

Seg 2 Construct Access	None	None	Arroyo Empedrado (35107-F2) / NM	None	EMTREX, CHMO, BURE, AQCH	None
Seg 2 Construct Access	None	None	Counselor (36107-B4) / NM	None	FAPE, CHMO, ATCU, AQCH	Area 3
Seg 2 Construct Access	AQCH	AQCH	Johnson Trading Post (35107-H2) / NM	None	ASSA, ALFO, EMTREX, CHMO, BURE, ATCU, AQCH	Area 3
Seg 2 Construct Access	None	CHMO	Mule Dam (36107-A4) / NM	None	ASSA, ALFO, VUMA, CHMO, BURE, ATCU, AQCH	Area 3
Seg 2 Construct Access	CHMO	AQCH, CHMO	Ojo Encino Mesa (35107-H3) / NM	None	ASSA, ALFO, VUMA, FAPE, EMTREX, CHMO, BURE, ATCU, AQCH	Area 3
Seg 2 Construct Access	None	None	San Luis (35107-F1) / NM	None	None	None
Seg 2 Construct Access	CHMO	CHMO	Star Lake (35107-H4) / NM	None	ASSA, ALFO, VUMA, CHMO, BURE, ATCU, AQCH	Area 3
Seg 2 Construct Access	None	None	Wolf Stand (35107-G2) / NM	None	ASSA, EMTREX, CHMO, BURE, ATCU, AQCH	Area 3
Seg 2 ETUA	None	None	Arroyo Empedrado (35107-F2) / NM	None	EMTREX, CHMO, BURE, AQCH	None
Seg 2 ETUA	None	CHMO	Ojo Encino Mesa (35107-H3) / NM	None	ASSA, ALFO, FAPE, EMTREX, CHMO, BURE, ATCU, AQCH	Area 3
Seg 2 ETUA	None	None	San Luis (35107-F1) / NM	None	None	None
Seg 2 ETUA	None	CHMO	Star Lake (35107-H4) / NM	None	ASSA, ALFO, VUMA, CHMO, BURE, ATCU, AQCH	Area 3
Seg 2 ETUA	None	None	Wolf Stand (35107-G2) / NM	None	ASSA, EMTREX, CHMO, BURE, ATCU, AQCH	Area 3
SR 57	None	None	Blanco Trading Post (36107-C7) / NM	None	ASSA, ALFO, VUMA, MUNI, EMTREX, CHMO, BURE, ATCU, AQCH	Area 3
TORREON MISSION	None	None	Wolf Stand (35107-G2) / NM	None	ASSA, EMTREX, CHMO, BURE, ATCU, AQCH	Area 3

Page 13 of 18

12ees101

5. Conditional Criteria Notes *(Recent Revisions Made Please Read Thoroughly)* (For certain species, and/or circumstances, please read and comply)

A. **Biological Resource Land Use Clearance Policies and Procedures (RCP)** - The purpose of the RCP is to assist the Navajo Nation government and chapters ensure compliance with federal and Navajo laws which protect, wildlife resources, including plants, and their habitat resulting in an expedited land use clearance process. After years of research and study, the NNDFW has identified and mapped wildlife habitat and sensitive areas that cover the entire Navajo Nation.
The following is a brief summary of six (6) wildlife areas:
1. ***Highly Sensitive Area*** – recommended no development with few exceptions.
2. ***Moderately Sensitive Area*** – moderate restrictions on development to avoid sensitive species/habitats.
3. ***Less Sensitive Area*** – fewest restrictions on development.
4. ***Community Development Area*** – areas in and around towns with few or no restrictions on development.
5. ***Biological Preserve*** – no development unless compatible with the purpose of this area.
6. ***Recreation Area*** – no development unless compatible with the purpose of this area.
None - outside the boundaries of the Navajo Nation
This is not intended to be a full description of the RCP please refer to the our website for additional information at http://www.nndfw.org/clup.htm.

B. **Raptors –** If raptors are known to occur within 1 mile of project location: Contact Chad Smith at 871-7070 regarding your evaluation of potential impacts and mitigation.
   - **Golden and Bald Eagles-** If Golden or Bald Eagle are known to occur within 1 mile of the project, decision makers need to ensure that they are not in violation of the Golden and Bald Eagle Nest Protection Regulations found at http://nnhp.nndfw.org/docs_reps/gben.pdf.
   - **Ferruginous Hawks –** Refer to "Navajo Nation Department of Fish and Wildlife's Ferruginous Hawk Management Guidelines for Nest Protection" http://nnhp.nndfw.org/docs_reps.htm for relevant information on avoiding impacts to Ferruginous Hawks within 1 mile of project location.
   - **Mexican Spotted Owl** - Please refer to the Navajo Nation Mexican Spotted Owl Management Plan http://nnhp.nndfw.org/docs_reps.htm for relevant information on proper project planning near/within spotted owl protected activity centers and habitat.

C. **Surveys –** Biological surveys need to be conducted during the appropriate season to ensure they are complete and accurate please refer to NN Species Accounts http://nnhp.nndfw.org/sp_account.htm. Surveyors on the Navajo Nation must be permitted by the Director, NNDFW. Contact Jeff Cole at (928) 871-7068 for permitting procedures. Questions pertaining to surveys should be directed to the NNDFW Zoologist (Chad Smith) for animals at 871-7070, and Botanist (Andrea Hazelton) for plants at (928)523-3221. Questions regarding biological evaluation should be directed to Jeff Cole at 871-7068.

D. **Oil/Gas Lease Sales –** Any settling or evaporation pits that could hold contaminants should be lined and covered. Covering pits, with a net or other material, will deter waterfowl and other migratory bird use. Lining pits will protect ground water quality.

E. **Power line Projects –** These projects need to ensure that they do not violate the regulations set forth in the Navajo Nation Raptor Electrocution Prevention Regulations found at http://nnhp.nndfw.org/docs_reps/repr.pdf.

F. **Guy Wires** – Does the project design include guy wires for structural support? If so, and if bird species may occur in relatively high concentrations in the project area, then guy wires should be equipped with highly visual markers to reduce the potential mortality due to bird-guy wire collisions. Examples of visual markers include aviation balls and bird flight diverters. Birds can be expected to occur in relatively high concentrations along migration routes (e.g., rivers, ridges or other distinctive linear topographic features) or where important habitat for breeding, feeding, roosting, etc. occurs. The U.S. Fish and Wildlife Service recommends marking guy wires with at least one marker per 100 meters of wire.

G. **San Juan River** – On 21 March 1994 (Federal Register, Vol. 59, No. 54), the U.S. Fish and Wildlife Service designated portions of the San Juan River (SJR) as critical habitat for Ptychocheilus lucius (Colorado pikeminnow) and Xyrauchen texanus (Razorback sucker). Colorado pikeminnow critical habitat includes the SJR and its 100-year floodplain from the State Route 371 Bridge in T29N, R13W, sec. 17 (New Mexico Meridian) to Neskahai Canyon in the San Juan arm of Lake Powell in T41S, R11E, sec. 26 (Salt Lake Meridian) up to the full pool elevation. Razorback sucker critical habitat includes the SJR and its 100-year floodplain from the Hogback Diversion in T29N, R16W, sec. 9 (New Mexico Meridian) to the full pool elevation at the mouth of Neskahai Canyon on the San Juan arm of Lake Powell in T41S, R11E, sec. 26 (Salt Lake Meridian). All actions carried out, funded or authorized by a federal agency which may alter the constituent elements of critical habitat must undergo section 7 consultation under the Endangered Species Act of 1973, as amended. Constituent elements are those physical and biological attributes essential to a species conservation and include, but are not limited to, water, physical habitat, and biological environment as required for each particular life stage of a species.

H. **Little Colorado River** - On 21 March 1994 (Federal Register, Vol. 59, No. 54) the U.S. Fish and Wildlife Service designated Critical Habitat along portions of the Colorado and Little Colorado Rivers (LCR) for Gila cypha (humpback chub). Within or adjacent to the Navajo Nation this critical habitat includes the LCR and its 100-year floodplain from river mile 8 in T32N R6E, sec. 12 (Salt and Gila River Meridian) to its confluence with the Colorado River in T32N R5E sec. 1 (S&GRM) and the Colorado River and 100-year floodplain from Nautuloid Canyon (River Mile 34) T36N R5E sec. 35 (S&GRM) to its confluence with the LCR. All actions carried out, funded or authorized by a federal agency which may alter the constituent elements of Critical Habitat must undergo section 7 consultation under the Endangered Species Act of 1973, as amended. Constituent elements are those physical and biological attributes essential to a species conservation and include, but are not limited to, water, physical habitat, and biological environment as required for each particular life stage of a species.

I. **Wetlands** – In Arizona and New Mexico, potential impacts to wetlands should also be evaluated. The U.S. Fish & Wildlife Service's National Wetlands Inventory (NWI) maps should be examined to determine whether areas classified as wetlands are located close enough to the project site(s) to be impacted. In cases where the maps are inconclusive (e.g., due to their small scale), field surveys must be completed. For field surveys, wetlands identification and delineation methodology contained in the "Corps of Engineers Wetlands Delineation Manual" (Technical Report Y-87-1) should be used. When wetlands are present, potential impacts must be addressed in an environmental assessment and the Army Corps of Engineers, Phoenix office, must be contacted. NWI maps are available for examination at the Navajo Natural Heritage Program (NNHP) office, or may be purchased through the U.S. Geological Survey (order forms are available through the NNHP). The NNHP has complete coverage of the Navajo Nation, excluding Utah, at 1:100,000 scale; and coverage at 1:24,000 scale in the southwestern portion of the Navajo Nation. In Utah, the U.S. Fish & Wildlife Service's National Wetlands Inventory maps are not yet available for the Utah portion of the Navajo Nation, therefore, field surveys should be completed to determine whether wetlands are located close enough to the project site(s) to be impacted. For field surveys, wetlands identification and delineation methodology contained in the "Corps of Engineers Wetlands Delineation Manual" (Technical Report Y-87-1) should be used. When wetlands are present, potential impacts must be addressed in an environmental assessment and the Army Corps of Engineers, Phoenix office, must be contacted. For more information contact the Navajo Environmental Protection Agency's Water Quality Program.

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J. **Life Length of Data Request** – The information in this report was identified by the NNHP and NNDFW's biologists and computerized database, and is based on data available at the time of this response. If project planning takes more than two (02) years from the date of this response, verification of the information provided herein is necessary. It should not be regarded as the final statement on the occurrence of any species, nor should it substitute for on-site surveys. Also, because the NNDFW information is continually updated, any given information response is only wholly appropriate for its respective request.

K. **Ground Water Pumping** - Projects involving the ground water pumping for mining operations, agricultural projects or commercial wells (including municipal wells) will have to provide an analysis on the effects to surface water and address potential impacts on all aquatic and/or wetlands species listed below. NESL Species potentially impacted by ground water pumping: Carex specuicola (Navajo Sedge), Cirsium rydbergii (Rydberg's Thistle), Primula specuicola (Cave Primrose), Platanthera zothecina (Alcove Bog Orchid), Puccinellia parishii (Parish Alkali Grass), Zigadenus vaginatus (Alcove Death Camas), Perityle specuicola (Alcove Rock Daisy), Symphyotrichum welshii (Welsh's American-aster), Coccyzus americanus (Yellow-billed Cuckoo), Empidonax traillii extimus (Southwestern Willow Flycatcher), Rana pipiens (Northern Leopard Frog), Gila cypha (Humpback Chub), Gila robusta (Roundtail Chub), Ptychocheilus lucius (Colorado Pikeminnow), Xyrauchen texanus (Razorback Sucker), Cinclus mexicanus (American Dipper), Speyeria nokomis (Western Seep Fritillary), Aechmophorus clarkia (Clark's Grebe), Ceryle alcyon (Belted Kingfisher), Dendroica petechia (Yellow Warbler), Porzana carolina (Sora), Catostomus discobolus (Bluehead Sucker), Cottus bairdi (Mottled Sculpin), Oxyloma kanabense (Kanab Ambersnail)

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6. Personnel Contacts

Wildlife Manager
Viola Willeto
928.871.6450
vwilleto@nndfw.org

Zoologist
Chad Smith
928.871.7070
csmith@nndfw.org

Botanist
Andrea Hazelton
928.523.3221
ahazelton@nndfw.org

Environmental Reviewer
Pamela Kyselka
928.871.7065
pkyselka@nndfw.org

GIS Supervisor
Dexter D Prall
928.871.6489
prall@nndfw.org

Wildlife Tech
Sonja Detsoi
928.871.6472
sdetsoi@nndfw.org

Page 17 of 18

12ees101

7. Resources

National Environmental Policy Act

Navajo Endangered Species List:
http://nnhp.nndfw.org/endangered.htm

Species Accounts:
http://nnhp.nndfw.org/sp_account.htm

Biological Investigation Permit Application
http://nnhp.nndfw.org/study_permit.htm

Navajo Nation Sensitive Species List
http://nnhp.nndfw.org/study_permit.htm

Various Species Management and/or Document and Reports
http://nnhp.nndfw.org/docs_reps.htm

Consultant List
(Coming Soon)

If you have any questions I may be reached at (928) 871-6472.

Sonja Detsoi, Wildlife Tech.
Natural Heritage Program
Department of Fish and Wildlife

xc: file/chrono

Page 18 of 18

APPENDIX H

COPIES OF SCOPING LETTERS TO TRIBES

IN REPLY REFER TO:

United States Department of the Interior

BUREAU OF LAND MANAGEMENT
New Mexico State Office
P.O. Box 27115
Santa Fe, New Mexico 87502-0115
www.blm.gov/nm

TAKE PRIDE IN AMERICA

8100 (9300)

September 6, 2012

Governor Randall Vicente
Pueblo of Acoma
P.O. Box 309
Acoma, NM 87034

CERTIFIED MAIL - RETURN RECEIPT REQUESTED
7011 1570 0001 3395 0599

Dear Governor Vicente:

The Bureau of Land Management New Mexico State Office (BLM-NMSO) has recently received an application for a right-of-way from the Mid-America Pipeline Company (MAPL) for their Western Expansion Pipeline Project Phase III (WEP III) in New Mexico. The pipeline is for the transport of natural gas liquids, and traverses the state from the northwest to southeast, through five of our field offices. The proposed route crosses multiple land jurisdictions, including BLM administered lands, the Pueblo of Zia Reservation, Navajo Nation Tribal Trust and allotted lands, and New Mexico State Trust and private lands. The BLM-NMSO is the designated lead agency for this project, which requires the direct involvement of the Department of Interior Bureau of Indian Affairs (BIA) Southwest Regional and Navajo Area offices.

We would like to invite you for consultation on any issues of concern you may have regarding this project. The MAPL WEP III Project will be subject to extensive environmental analyses for the National Environmental Policy Act (NEPA), regarding the potential impacts of the project. Our office and our field offices will be available to discuss any issues with your office throughout this process, and any issues which may arise during the project.

Many of the issues we have consulted with tribal governments in the past for earlier pipelines along this route have involved the cultural resources potentially subject to impact. Our office will be developing a project specific Programmatic Agreement (PA) defining the process and procedures for the project to comply with Section 106 of the National Historic Preservation Act (NHPA) for consultation with the parties to the agreement. We are in the initial phase of our internal review of a draft PA. The PA developed for MAPL WEP III will incorporate the input of the Pueblo of Zia, the Navajo Nation, the BIA Southwest Regional and Navajo Regional Offices, the New Mexico State Land Office, the New Mexico State Historic Preservation Officer (NM-SHPO), and the Advisory Council on Historic Preservation. We will also be consulting with the additional tribes who express interest in this project, who may wish to participate in the PA.

We will use the National Environmental Policy Act (NEPA) scoping process and procedures to invite public participation in the Section 106 process, and we intend to conduct NEPA analysis for this project concurrently as we develop the final PA for this project with input from the expected signatories to the document, and other interested parties as yet unidentified, who may wish to participate as consulting parties.

We have provided an information packet for the MAPL WEP III project with this correspondence, and look forward to your response regarding this project. We are available for any questions you may have about the project, or other concerns you may have. Please contact me directly, at 505-954-2222, via e-mail at jjuen@blm.gov, or for specific project related questions please contact our Project Lead Archaeologist on this project, Dave Simons, at 505-954-2178, or via e-mail at dsimons@blm.gov.

Sincerely,

Jesse Juen
State Director

1 Enclosure

cc:
MAPL WEP III Project File

United States Department of the Interior

BUREAU OF LAND MANAGEMENT
New Mexico State Office
P.O. Box 27115
Santa Fe, New Mexico 87502-0115
www.blm.gov/nm

IN REPLY REFER TO:
8100 (9300)

September 6, 2012

Governor Phillip Quintana
Pueblo of Cochiti
P.O. Box 70
Cochiti Pueblo,NM 87072

CERTIFIED MAIL - RETURN RECEIPT REQUESTED
7011 1570 0001 3395 0582

Dear Governor Quintana:

The Bureau of Land Management New Mexico State Office (BLM-NMSO) has recently received an application for a right-of-way from the Mid-America Pipeline Company (MAPL) for their Western Expansion Pipeline Project Phase III (WEP III) in New Mexico. The pipeline is for the transport of natural gas liquids, and traverses the state from the northwest to southeast, through five of our field offices. The proposed route crosses multiple land jurisdictions, including BLM administered lands, the Pueblo of Zia reservation, Navajo Nation Tribal Trust and allotted lands, and New Mexico State Trust and private lands. The BLM-NMSO is the designated Lead Agency for this project, which requires the direct involvement of the Department of Interior Bureau of Indian Affairs (BIA) Southwest Regional and Navajo Area offices.

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Sincerely,

Jesse Juen
State Director

1 Enclosure

cc:
MAPL WEP III Project File

United States Department of the Interior

BUREAU OF LAND MANAGEMENT
New Mexico State Office
P.O. Box 27115
Santa Fe, New Mexico 87502-0115
www.blm.gov/nm

IN REPLY REFER TO:
8100 (9300)

TAKE PRIDE IN AMERICA

September 6, 2012

Chairman Wallace Coffey
Comanche Nation
P.O. Box 908
Lawton, OK 73502

CERTIFIED MAIL - RETURN RECEIPT REQUESTED
7011 1570 0001 3395 0575

Dear Chairman Coffey:

The Bureau of Land Management New Mexico State Office (BLM-NMSO) has recently received an application for a right-of-way from the Mid-America Pipeline Company (MAPL) for their Western Expansion Pipeline Project Phase III (WEP III) in New Mexico. The pipeline is for the transport of natural gas liquids, and traverses the state from the northwest to southeast, through five of our field offices. The proposed route crosses multiple land jurisdictions, including BLM administered lands, the Pueblo of Zia reservation, Navajo Nation Tribal Trust and allotted lands, and New Mexico State Trust and private lands. The BLM-NMSO is the designated Lead Agency for this project, which requires the direct involvement of the Department of Interior Bureau of Indian Affairs (BIA) Southwest Regional and Navajo Area offices.

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Sincerely,

Jesse Juen
State Director

1 Enclosure

cc:
MAPL WEP III Project File

United States Department of the Interior

BUREAU OF LAND MANAGEMENT
New Mexico State Office
P.O. Box 27115
Santa Fe, New Mexico 87502-0115
www.blm.gov/nm

IN REPLY REFER TO:

8100 (9300)

September 6, 2012

Chairman LeRoy Sihingoitewa
Hopi Tribal Council
P.O. Box 123
Kykotsmovi, AZ 86039

CERTIFIED MAIL - RETURN RECEIPT REQUESTED
7011 1570 0001 3395 0568

Dear Chairman Sihingoitewa:

The Bureau of Land Management New Mexico State Office (BLM-NMSO) has recently received an application for a right-of-way from the Mid-America Pipeline Company (MAPL) for their Western Expansion Pipeline Project Phase III (WEP III) in New Mexico. The pipeline is for the transport of natural gas liquids, and traverses the state from the northwest to southeast, through five of our field offices. The proposed route crosses multiple land jurisdictions, including BLM administered lands, the Pueblo of Zia reservation, Navajo Nation Tribal Trust and allotted lands, and New Mexico State Trust and private lands. The BLM-NMSO is the designated Lead Agency for this project, which requires the direct involvement of the Department of Interior Bureau of Indian Affairs (BIA) Southwest Regional and Navajo Area offices.

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Many of the issues we have consulted with tribal governments in the past for earlier pipelines along this route have involved the cultural resources potentially subject to impact. Our office will be developing a project specific Programmatic Agreement (PA) defining the process and procedures for the project to comply with Section 106 of the National Historic Preservation Act (NHPA) for consultation with the parties to the agreement. We are in the initial phase of our internal review of a draft PA. The PA developed for MAPL WEP III will incorporate the input of the Pueblo of Zia, the Navajo Nation, the BIA Southwest Regional and Navajo Regional Offices, the New Mexico State Land Office, the New Mexico State Historic Preservation Officer (NM-SHPO), and the Advisory Council on Historic Preservation. We will also be consulting with the additional tribes who express interest in this project, who may wish to participate in the PA.

We will use the National Environmental Policy Act (NEPA) scoping process and procedures to invite public participation in the Section 106 process, and we intend to conduct NEPA analysis for this project concurrently as we develop the final PA for this project with input from the expected signatories to the document, and other interested parties as yet unidentified, who may wish to participate as consulting parties.

We have provided an information packet for the MAPL WEP III project with this correspondence, and look forward to your response regarding this project. We are available for any questions you may have about the project, or other concerns you may have. Please contact me directly, at 505-954-2222, via e-mail at jjuen@blm.gov, or for specific project related questions please contact our Project Lead Archaeologist on this project, Dave Simons, at 505-954-2178, via e-mail at dsimons@blm.gov.

Sincerely,

Jesse Juen
State Director

1 Enclosure

cc:
MAPL WEP III Project File

United States Department of the Interior

BUREAU OF LAND MANAGEMENT
New Mexico State Office
P.O. Box 27115
Santa Fe, New Mexico 87502-0115
www.blm.gov/nm

IN REPLY REFER TO:

TAKE PRIDE IN AMERICA

8100 (9300)

September 6, 2012

Mr. Leigh Kuwanwisiwma
Tribal Historic Preservation Officer
Hopi Cultural Preservation Office
P.O. Box 123
Kykotsmovi AZ 86039

CERTIFIED MAIL - RETURN RECEIPT REQUESTED
7011 1570 0001 3395

Mr. Kuwanwisiwma:

The Bureau of Land Management New Mexico State Office (BLM-NMSO) has recently received an application for a right-of-way from the Mid-America Pipeline Company (MAPL) for their Western Expansion Pipeline Project Phase III (WEP III) in New Mexico. The pipeline is for the transport of natural gas liquids, and traverses the state from the northwest to southeast, through five of our field offices. The proposed route crosses multiple land jurisdictions, including BLM administered lands, the Pueblo of Zia reservation, Navajo Nation Tribal Trust and allotted lands, and New Mexico State Trust and private lands. The BLM-NMSO is the designated lead agency for this project, which requires the direct involvement of the Department of Interior Bureau of Indian Affairs (BIA) Southwest Regional and Navajo Area offices.

We have contacted Chairman Sihingoitewa inviting consultation on any issues of concern to the Hopi Tribe regarding this project. The MAPL WEP III Project will be subject to extensive environmental analyses for the National Environmental Policy Act (NEPA), regarding the potential impacts of the project. Our office and our field offices will be available to discuss any issues with the Hopi Tribe throughout this process, and any issues which may arise during the project.

Our office will be developing a project specific Programmatic Agreement (PA) defining the process and procedures for the project to comply with Section 106 of the National Historic Preservation Act (NHPA) for consultation with the parties to the agreement. We are in the initial phase of our internal review of a draft PA. The PA developed for MAPL WEP III will incorporate the input of the Pueblo of Zia, the Navajo Nation, the BIA Southwest Regional and Navajo Regional Offices, the New Mexico State Land Office, the New Mexico State Historic Preservation Officer (NM-SHPO), and the Advisory Council on Historic Preservation. We will

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Sincerely,

Jesse Juen
State Director

1 Enclosure

cc: MAPL WEP III Project File

United States Department of the Interior

BUREAU OF LAND MANAGEMENT
New Mexico State Office
P.O. Box 27115
Santa Fe, New Mexico 87502-0115
www.blm.gov/nm

IN REPLY REFER TO:

8100 (9300)

September 6, 2012

Governor Frank Lujan
Pueblo of Isleta
P.O. Box 1270
Isleta Pueblo, NM 87022

CERTIFIED MAIL - RETURN RECEIPT REQUESTED
7011 1570 0001 3395 0551

Dear Governor Lujan:

The Bureau of Land Management New Mexico State Office (BLM-NMSO) has recently received an application for a right-of-way from the Mid-America Pipeline Company (MAPL) for their Western Expansion Pipeline Project Phase III (WEP III) in New Mexico. The pipeline is for the transport of natural gas liquids, and traverses the state from the northwest to southeast, through five of our field offices. The proposed route crosses multiple land jurisdictions, including BLM administered lands, the Pueblo of Zia reservation, Navajo Nation Tribal Trust and allotted lands, and New Mexico State Trust and private lands. The BLM-NMSO is the designated Lead Agency for this project, which requires the direct involvement of the Department of Interior Bureau of Indian Affairs (BIA) Southwest Regional and Navajo Area offices.

We would like to invite you for consultation on any issues of concern you may have regarding this project. The MAPL WEP III Project will be subject to extensive environmental analyses for the National Environmental Policy Act (NEPA), regarding the potential impacts of the project. Our office and our field offices will be available to discuss any issues with your office throughout this process, and any issues which may arise during the project.

Many of the issues we have consulted with tribal governments in the past for earlier pipelines along this route have involved the cultural resources potentially subject to impact. Our office will be developing a project specific Programmatic Agreement (PA) defining the process and procedures for the project to comply with Section 106 of the National Historic Preservation Act (NHPA) for consultation with the parties to the agreement. We are in the initial phase of our internal review of a draft PA. The PA developed for MAPL WEP III will incorporate the input of the Pueblo of Zia, the Navajo Nation, the BIA Southwest Regional and Navajo Regional Offices, the New Mexico State Land Office, the New Mexico State Historic Preservation Officer (NM-SHPO), and the Advisory Council on Historic Preservation. We will also be consulting with the additional tribes who express interest in this project, who may wish to participate in the PA.

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Sincerely,

Jesse Juen
State Director

1 Enclosure

cc:
MAPL WEP III Project File

United States Department of the Interior

BUREAU OF LAND MANAGEMENT
New Mexico State Office
P.O. Box 27115
Santa Fe, New Mexico 87502-0115
www.blm.gov/nm

IN REPLY REFER TO:
8100 (9300)

TAKE PRIDE IN AMERICA

September 6, 2012

Governor Joshua Madalena
Pueblo of Jemez
P.O. Box 100
Jemez Pueblo, NM 87024

CERTIFIED MAIL - RETURN RECEIPT REQUESTED
7011 1570 0001 3395 0544

Dear Governor Madalena:

The Bureau of Land Management New Mexico State Office (BLM-NMSO) has recently received an application for a right-of-way from the Mid-America Pipeline Company (MAPL) for their Western Expansion Pipeline Project Phase III (WEP III) in New Mexico. The pipeline is for the transport of natural gas liquids, and traverses the state from the northwest to southeast, through five of our field offices. The proposed route crosses multiple land jurisdictions, including BLM administered lands, the Pueblo of Zia reservation, Navajo Nation Tribal Trust and allotted lands, and New Mexico State Trust and private lands. The BLM-NMSO is the designated lead agency for this project, which requires the direct involvement of the Department of Interior Bureau of Indian Affairs (BIA) Southwest Regional and Navajo Area offices.

We would like to invite you for consultation on any issues of concern you may have regarding this project. The MAPL WEP III Project will be subject to extensive environmental analyses for the National Environmental Policy Act (NEPA), regarding the potential impacts of the project. Our office and our field offices will be available to discuss any issues with your office throughout this process, and any issues which may arise during the project.

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Sincerely,

Jesse Juen
State Director

1 Enclosure

cc:
MAPL WEP III Project File

United States Department of the Interior

BUREAU OF LAND MANAGEMENT
New Mexico State Office
P.O. Box 27115
Santa Fe, New Mexico 87502-0115
www.blm.gov/nm

IN REPLY REFER TO:

TAKE PRIDE IN AMERICA

8100 (9300)

September 6, 2012

President Levi Pesata
Jicarilla Apache Nation
PO Box 507
Dulce, NM 87528

CERTIFIED MAIL - RETURN RECEIPT REQUESTED
7011 1570 0001 3395 0520

Dear President Pesata:

The Bureau of Land Management New Mexico State Office (BLM-NMSO) has recently received an application for a right-of-way from the Mid-America Pipeline Company (MAPL) for their Western Expansion Pipeline Project Phase III (WEP III) in New Mexico. The pipeline is for the transport of natural gas liquids, and traverses the state from the northwest to southeast, through five of our field offices. The proposed route crosses multiple land jurisdictions, including BLM administered lands, the Pueblo of Zia reservation, Navajo Nation Tribal Trust and allotted lands, and New Mexico State Trust and private lands. The BLM-NMSO is the designated lead agency for this project, which requires the direct involvement of the Department of Interior Bureau of Indian Affairs (BIA) Southwest Regional and Navajo Area offices.

We would like to invite you for consultation on any issues of concern you may have regarding this project. The MAPL WEP III Project will be subject to extensive environmental analyses for the National Environmental Policy Act (NEPA), regarding the potential impacts of the project. Our office and our field offices will be available to discuss any issues with your office throughout this process, and any issues which may arise during the project.

Many of the issues we have consulted with tribal governments in the past for earlier pipelines along this route have involved the cultural resources potentially subject to impact. Our office will be developing a project specific Programmatic Agreement (PA) defining the process and procedures for the project to comply with Section 106 of the National Historic Preservation Act (NHPA) for consultation with the parties to the agreement. We are in the initial phase of our internal review of a draft PA. The PA developed for MAPL WEP III will incorporate the input of the Pueblo of Zia, the Navajo Nation, the BIA Southwest Regional and Navajo Regional Offices, the New Mexico State Land Office, the New Mexico State Historic Preservation Officer (NM-SHPO), and the Advisory Council on Historic Preservation. We will also be consulting with the additional tribes who express interest in this project, who may wish to participate in the PA.

We will use the National Environmental Policy Act (NEPA) scoping process and procedures to invite public participation in the Section 106 process, and we intend to conduct NEPA analysis for this project concurrently as we develop the final PA for this project with input from the expected signatories to the document, and other interested parties as yet unidentified, who may wish to participate as consulting parties.

We have provided an information packet for the MAPL WEP III project with this correspondence, and look forward to your response regarding this project. We are available for any questions you may have about the project, or other concerns you may have. Please contact me directly, at 505-954-2222, or via e-mail at jjuen@blm.gov, or for specific project related questions please contact our Project Lead Archaeologist on this project, Dave Simons, at 505-954-2178, via e-mail at dsimons@blm.gov.

Sincerely,

Jesse Juen
State Director

1 Enclosure

cc:
MAPL WEP III Project File

United States Department of the Interior

BUREAU OF LAND MANAGEMENT
New Mexico State Office
P.O. Box 27115
Santa Fe, New Mexico 87502-0115
www.blm.gov/nm

IN REPLY REFER TO:

8100 (9300)

TAKE PRIDE IN AMERICA

September 6, 2012

Dr. Jeffrey Blythe
Tribal Historic Preservation Officer
Jicarilla Apache Nation
PO Box 1367
Dulce NM 87528-0507

CERTIFIED MAIL - RETURN RECEIPT REQUESTED
7011 1570 0001 3395 0797

Dear Dr. Blythe:

The Bureau of Land Management New Mexico State Office (BLM-NMSO) has recently received an application for a right-of-way from the Mid-America Pipeline Company (MAPL) for their Western Expansion Pipeline Project Phase III (WEP III) in New Mexico. The pipeline is for the transport of natural gas liquids, and traverses the state from the northwest to southeast, through five of our field offices. The proposed route crosses multiple land jurisdictions, including BLM administered lands, the Pueblo of Zia reservation, Navajo Nation Tribal Trust and allotted lands, and New Mexico State Trust and private lands. The BLM-NMSO is the designated lead agency for this project, which requires the direct involvement of the Department of Interior Bureau of Indian Affairs (BIA) Southwest Regional and Navajo Area offices.

We have contacted President Pesata inviting consultation on any issues of concern to the Jicarilla Apache Nation regarding this project. The MAPL WEP III Project will be subject to extensive environmental analyses for the National Environmental Policy Act (NEPA), regarding the potential impacts of the project. Our office and our field offices will be available to discuss any issues with the Jicarilla Apache Nation throughout this process, and any issues which may arise during the project.

Our office will be developing a project specific Programmatic Agreement (PA) defining the process and procedures for the project to comply with Section 106 of the National Historic Preservation Act (NHPA) for consultation with the parties to the agreement. We are in the initial phase of our internal review of a draft PA. The PA developed for MAPL WEP III will incorporate the input of the Pueblo of Zia, the Navajo Nation, the BIA Southwest Regional and Navajo Regional Offices, the New Mexico State Land Office, the New Mexico State Historic Preservation Officer (NM-SHPO), and the Advisory Council on Historic Preservation. We will

also be consulting with the additional tribes who express interest in this project, who may wish to participate in the PA.

We will use the National Environmental Policy Act (NEPA) scoping process and procedures to invite public participation in the Section 106 process, and we intend to conduct NEPA analysis for this project concurrently as we develop the final PA for this project with input from the expected signatories to the document, and other interested parties as yet unidentified, who may wish to participate as consulting parties.

We have provided an information packet for the MAPL WEP III project with this correspondence, and look forward to your response regarding this project. We are available for any questions you may have about the project, or other concerns you may have. Please contact me directly, at 505-954-2222, via e-mail at jjuen@blm.gov, or for specific project related questions please contact our Project Lead Archaeologist on this project, Dave Simons, at 505-954-2178, via e-mail at dsimons@blm.gov.

Sincerely,

Jesse Juen
State Director

1 Enclosure

cc:
MAPL WEP III Project File

IN REPLY REFER TO:

United States Department of the Interior

BUREAU OF LAND MANAGEMENT
New Mexico State Office
P.O. Box 27115
Santa Fe, New Mexico 87502-0115
www.blm.gov/nm

TAKE PRIDE IN AMERICA

8100 (9300)

September 6, 2012

Governor Sisto Quintana
Kewa Pueblo
P.O. Box 99
Santo Domingo Pueblo, NM 87052

CERTIFIED MAIL - RETURN RECEIPT REQUESTED
7011 1570 0001 3395 0605

Dear Governor Quintana:

The Bureau of Land Management New Mexico State Office (BLM-NMSO) has recently received an application for a right-of-way from the Mid-America Pipeline Company (MAPL) for their Western Expansion Pipeline Project Phase III (WEP III) in New Mexico. The pipeline is for the transport of natural gas liquids, and traverses the state from the northwest to southeast, through five of our field offices. The proposed route crosses multiple land jurisdictions, including BLM administered lands, the Pueblo of Zia reservation, Navajo Nation Tribal Trust and allotted lands, and New Mexico State Trust and private lands. The BLM-NMSO is the designated lead agency for this project, which requires the direct involvement of the Department of Interior Bureau of Indian Affairs (BIA) Southwest Regional and Navajo Area offices.

We would like to invite you for consultation on any issues of concern you may have regarding this project. The MAPL WEP III Project will be subject to extensive environmental analyses for the National Environmental Policy Act (NEPA), regarding the potential impacts of the project. Our office and our field offices will be available to discuss any issues with your office throughout this process, and any issues which may arise during the project.

Many of the issues we have consulted with tribal governments in the past for earlier pipelines along this route have involved the cultural resources potentially subject to impact. Our office will be developing a project specific Programmatic Agreement (PA) defining the process and procedures for the project to comply with Section 106 of the National Historic Preservation Act (NHPA) for consultation with the parties to the agreement. We are in the initial phase of our internal review of a draft PA. The PA developed for MAPL WEP III will incorporate the input of the Pueblo of Zia, the Navajo Nation, the BIA Southwest Regional and Navajo Regional Offices, the New Mexico State Land Office, the New Mexico State Historic Preservation Officer (NM-SHPO), and the Advisory Council on Historic Preservation. We will also be consulting with the additional tribes who express interest in this project, who may wish to participate in the PA.

We will use the National Environmental Policy Act (NEPA) scoping process and procedures to invite public participation in the Section 106 process, and we intend to conduct NEPA analysis for this project concurrently as we develop the final PA for this project with input from the expected signatories to the document, and other interested parties as yet unidentified, who may wish to participate as consulting parties.

We have provided an information packet for the MAPL WEP III project with this correspondence, and look forward to your response regarding this project. We are available for any questions you may have about the project, or other concerns you may have. Please contact me directly, at 505-954-2222, or via e-mail at jjuen@blm.gov, or for specific project related questions please contact our Project Lead Archaeologist on this project, Dave Simons, at 505-954-2178, via e-mail at dsimons@blm.gov.

Sincerely,

Jesse Juen
State Director

1 Enclosure

cc:
MAPL WEP III Project File

United States Department of the Interior

BUREAU OF LAND MANAGEMENT
New Mexico State Office
P.O. Box 27115
Santa Fe, New Mexico 87502-0115
www.blm.gov/nm

TAKE PRIDE IN AMERICA

IN REPLY REFER TO:

8100 (9300)

September 6, 2012

Ms. Holly Houghten
Tribal Historic Preservation Officer
Mescalero Apache Tribe
P.O. Box 227
Mescalero NM 88340

CERTIFIED MAIL - RETURN RECEIPT REQUESTED
7011 1570 0001 3395 0773

Dear Ms. Houghten:

The Bureau of Land Management New Mexico State Office (BLM-NMSO) has recently received an application for a right-of-way from the Mid-America Pipeline Company (MAPL) for their Western Expansion Pipeline Project Phase III (WEP III) in New Mexico. The pipeline is for the transport of natural gas liquids, and traverses the state from the northwest to southeast, through five of our field offices. The proposed route crosses multiple land jurisdictions, including BLM administered lands, the Pueblo of Zia reservation, Navajo Nation Tribal Trust and allotted lands, and New Mexico State Trust and private lands. The BLM-NMSO is the designated lead agency for this project, which requires the direct involvement of the Department of Interior Bureau of Indian Affairs (BIA) Southwest Regional and Navajo Area offices.

We have contacted President Chino inviting consultation on any issues of concern to the Mescalero Apache Tribe regarding this project. The MAPL WEP III Project will be subject to extensive environmental analyses for the National Environmental Policy Act (NEPA), regarding the potential impacts of the project. Our office and our field offices will be available to discuss any issues with the Mescalero Apache Tribe throughout this process, and any issues which may arise during the project.

Our office will be developing a project specific Programmatic Agreement (PA) defining the process and procedures for the project to comply with Section 106 of the National Historic Preservation Act (NHPA) for consultation with the parties to the agreement. We are in the initial phase of our internal review of a draft PA. The PA developed for MAPL WEP III will incorporate the input of the Pueblo of Zia, the Navajo Nation, the BIA Southwest Regional and Navajo Regional Offices, the New Mexico State Land Office, the New Mexico State Historic

Preservation Officer (NM-SHPO), and the Advisory Council on Historic Preservation. We will also be consulting with the additional tribes who express interest in this project, who may wish to participate in the PA.

We will use the National Environmental Policy Act (NEPA) scoping process and procedures to invite public participation in the Section 106 process, and we intend to conduct NEPA analysis for this project concurrently as we develop the final PA for this project with input from the expected signatories to the document, and other interested parties as yet unidentified, who may wish to participate as consulting parties.

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Sincerely,

Jesse Juen
State Director

1 Enclosure

cc:
MAPL WEP III Project File

United States Department of the Interior

BUREAU OF LAND MANAGEMENT
New Mexico State Office
P.O. Box 27115
Santa Fe, New Mexico 87502-0115
www.blm.gov/nm

IN REPLY REFER TO:

8100 (9300)

TAKE PRIDE IN AMERICA

September 6, 2012

Dr. Alan S. Downer
Tribal Historic Preservation Officer
Navajo Nation Historic Preservation Department
PO Box 4950
Window Rock AZ 86515

CERTIFIED MAIL - RETURN RECEIPT REQUESTED
7011 1570 0001 3395 0759

Dear Dr. Downer:

The Bureau of Land Management New Mexico State Office (BLM-NMSO) has recently received an application for a right-of-way from the Mid-America Pipeline Company (MAPL) for their Western Expansion Pipeline Project Phase III (WEP III) in New Mexico. The pipeline is for the transport of natural gas liquids, and traverses the state from the northwest to southeast, through five of our field offices. The proposed route crosses multiple land jurisdictions, including BLM administered lands, the Pueblo of Zia reservation, Navajo Nation Tribal Trust and allotted lands, and New Mexico State Trust and private lands. The BLM-NMSO is the designated lead agency for this project, which requires the direct involvement of the Department of Interior Bureau of Indian Affairs (BIA) Southwest Regional and Navajo Area offices.

We have contacted President Shelly inviting consultation on any issues of concern to the Navajo Nation regarding this project. The MAPL WEP III Project will be subject to extensive environmental analyses for the National Environmental Policy Act (NEPA), regarding the potential impacts of the project. Our office and our field offices will be available to discuss any issues with the Navajo Nation throughout this process, and any issues which may arise during the project.

Our office will be developing a project specific Programmatic Agreement (PA) defining the process and procedures for the project to comply with Section 106 of the National Historic Preservation Act (NHPA) for consultation with the parties to the agreement. We are in the initial phase of our internal review of a draft PA. The draft PA for the MAPL WEP III project is similar in format and content to the Programmatic Agreement developed for adjacent segments of the MAPL Western Expansion Project in New Mexico in 2006, which the Navajo Nation was signatory to. This PA is listed as BLM PA NM-930-2006-009 in our records system, receiving

your signature and approval on March 6, 2006. The PA developed for MAPL WEP III will incorporate the input of the Pueblo of Zia, the Navajo Nation, the BIA Southwest Regional and Navajo Regional Offices, the New Mexico State Land Office, the New Mexico State Historic Preservation Officer (NM-SHPO), and the Advisory Council on Historic Preservation. We will also be consulting with the additional tribes who express interest in this project, who may wish to participate in the PA.

We will use the National Environmental Policy Act (NEPA) scoping process and procedures to invite public participation in the Section 106 process, and we intend to conduct NEPA analysis for this project concurrently as we develop the final PA for this project with input from the expected signatories to the document, and other interested parties as yet unidentified, who may wish to participate as consulting parties.

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Sincerely,

Jesse Juen
State Director

1 Enclosure

cc:
MAPL WEP III Project File

United States Department of the Interior

BUREAU OF LAND MANAGEMENT
New Mexico State Office
P.O. Box 27115
Santa Fe, New Mexico 87502-0115
www.blm.gov/nm

IN REPLY REFER TO:

8100 (9300)

TAKE PRIDE IN AMERICA

September 6, 2012

Mr. Vernon G. Lujan
Tribal Historic Preservation Officer
Pueblo of Pojoaque
78 Cities of Gold Road
Santa Fe NM 87506-0918

CERTIFIED MAIL - RETURN RECEIPT REQUESTED
7011 1570 0001 3395 0766

Dear Mr. Lujan:

The Bureau of Land Management New Mexico State Office (BLM-NMSO) has recently received an application for a right-of-way from the Mid-America Pipeline Company (MAPL) for their Western Expansion Pipeline Project Phase III (WEP III) in New Mexico. The pipeline is for the transport of natural gas liquids, and traverses the state from the northwest to southeast, through five of our field offices. The proposed route crosses multiple land jurisdictions, including BLM administered lands, the Pueblo of Zia reservation, Navajo Nation Tribal Trust and allotted lands, and New Mexico State Trust and private lands. The BLM-NMSO is the designated lead agency for this project, which requires the direct involvement of the Department of Interior Bureau of Indian Affairs (BIA) Southwest Regional and Navajo Area offices.

We have contacted Governor Rivera inviting consultation on any issues of concern to the Pueblo of Pojoaque regarding this project. The MAPL WEP III Project will be subject to extensive environmental analyses for the National Environmental Policy Act (NEPA), regarding the potential impacts of the project. Our office and our field offices will be available to discuss any issues with the Pueblo of Pojoaque throughout this process, and any issues which may arise during the project.

Our office will be developing a project specific Programmatic Agreement (PA) defining the process and procedures for the project to comply with Section 106 of the National Historic Preservation Act (NHPA) for consultation with the parties to the agreement. We are in the initial phase of our internal review of a draft PA. The PA developed for MAPL WEP III will incorporate the input of the Pueblo of Zia, the Navajo Nation, the BIA Southwest Regional and Navajo Regional Offices, the New Mexico State Land Office, the New Mexico State Historic Preservation Officer (NM-SHPO), and the Advisory Council on Historic Preservation. We will

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Sincerely,

Jesse Juen
State Director

1 Enclosure

cc:
MAPL WEP III Project File

United States Department of the Interior

BUREAU OF LAND MANAGEMENT
New Mexico State Office
P.O. Box 27115
Santa Fe, New Mexico 87502-0115
www.blm.gov/nm

IN REPLY REFER TO:

8100 (9300)

TAKE PRIDE IN AMERICA

September 6, 2012

Mr. Walter Cristobal
Tribal Historic Preservation Officer
Pueblo of Santa Ana
2 Dove Rd.
Santa Ana Pueblo NM 87004

CERTIFIED MAIL - RETURN RECEIPT REQUESTED
7011 1570 0001 3395 0803

Dear Mr. Cristobal:

The Bureau of Land Management New Mexico State Office (BLM-NMSO) has recently received an application for a right-of-way from the Mid-America Pipeline Company (MAPL) for their Western Expansion Pipeline Project Phase III (WEP III) in New Mexico. The pipeline is for the transport of natural gas liquids, and traverses the state from the northwest to southeast, through five of our field offices. The proposed route crosses multiple land jurisdictions, including BLM administered lands, the Pueblo of Zia reservation, Navajo Nation Tribal Trust and allotted lands, and New Mexico State Trust and private lands. The BLM-NMSO is the designated lead agency for this project, which requires the direct involvement of the Department of Interior Bureau of Indian Affairs (BIA) Southwest Regional and Navajo Area offices.

We have contacted Governor Lujan inviting consultation on any issues of concern the Pueblo of Santa Ana may have regarding this project. The MAPL WEP III Project will be subject to extensive environmental analyses for the National Environmental Policy Act (NEPA), regarding the potential impacts of the project. Our office and our field offices will be available to discuss any issues with your office throughout this process, and any issues which may arise during the project.

Many of the issues we have consulted with tribal governments in the past for earlier pipelines along this route have involved the cultural resources subject to impact. Our office will be developing a project specific Programmatic Agreement (PA) defining the process and procedures for the project to comply with Section 106 of the National Historic Preservation Act (NHPA) for consultation with the parties to the agreement. We are in the initial phase of our internal review of a draft PA. The draft PA for the MAPL WEP III project is similar in format and content to the Programmatic Agreement developed for adjacent segments of the MAPL Western Expansion Project in New Mexico in 2006, which the Pueblo of Santa Ana was signatory to. This PA is

listed as BLM PA NM-930-2006-009 in our records system, receiving the Pueblo of Santa Ana Lieutenant Governor's signature and approval on January 31, 2006. The PA developed for MAPL WEP III will incorporate the input of the Pueblo of Zia, the Navajo Nation, the BIA Southwest Regional and Navajo Regional Offices, the New Mexico State Land Office, the New Mexico State Historic Preservation Officer (NM-SHPO), and the Advisory Council on Historic Preservation. We will be consulting with additional tribes who express interest in this project, who may wish to participate in the PA.

We will use the National Environmental Policy Act (NEPA) scoping process and procedures to invite public participation in the Section 106 process, and we intend to conduct NEPA analysis for this project concurrently as we develop the final PA for this project with input from the expected signatories to the document, and other interested parties as yet unidentified, who may wish to participate as consulting parties.

We have provided an information packet for the MAPL WEP III project with this correspondence, and look forward to your response regarding this project. We are available for any questions you may have about the project, or other concerns you may have. Please contact me directly, at 505-954-2222, via e-mail at jjuen@blm.gov, or for specific project related questions please contact our Project Lead Archaeologist on this project, Dave Simons, at 505-954-2178, via e-mail at dsimons@blm.gov.

Sincerely,

Jesse Juen
State Director

1 Enclosure

cc:
MAPL WEP III Project File

United States Department of the Interior

BUREAU OF LAND MANAGEMENT
New Mexico State Office
P.O. Box 27115
Santa Fe, New Mexico 87502-0115
www.blm.gov/nm

IN REPLY REFER TO:
8100 (9300)

TAKE PRIDE IN AMERICA

September 6, 2012

Mr. Mark Mitchell
Tribal Historic Preservation Officer
Cultural Resources Department
Pueblo of Tesuque
Route 42, Box 360-T
Santa Fe,NM 87506-2632

CERTIFIED MAIL - RETURN RECEIPT REQUESTED
7011 1570 0001 3395 0780

Dear Mr. Mitchell:

The Bureau of Land Management New Mexico State Office (BLM-NMSO) has recently received an application for a Right-of-way from the Mid-America Pipeline Company (MAPL) for their Western Expansion Pipeline Project Phase III (WEP III) in New Mexico. The pipeline is for the transport of natural gas liquids, and traverses the state from the northwest to southeast, through five of our field offices. The proposed route crosses multiple land jurisdictions, including BLM administered lands, the Pueblo of Zia reservation, Navajo Nation Tribal Trust and allotted lands, and New Mexico State Trust and private lands. The BLM-NMSO is the designated lead agency for this project, which requires the direct involvement of the Department of Interior Bureau of Indian Affairs (BIA) Southwest Regional and Navajo Area offices.

We have contacted Governor Rivera inviting consultation on any issues of concern to the Pueblo of Tesuque regarding this project. The MAPL WEP III Project will be subject to extensive environmental analyses for the National Environmental Policy Act (NEPA), regarding the potential impacts of the project. Our office and our Field Offices will be available to discuss any issues with the Pueblo of Tesuque throughout this process, and any issues which may arise during the project.

Our office will be developing a project specific Programmatic Agreement (PA) defining the process and procedures for the project to comply with Section 106 of the National Historic Preservation Act (NHPA) for consultation with the parties to the agreement. We are in the initial phase of our internal review of a draft PA. The PA developed for MAPL WEP III will incorporate the input of the Pueblo of Zia, the Navajo Nation, the BIA Southwest Regional and

Navajo Regional Offices, the New Mexico State Land Office, the New Mexico State Historic Preservation Officer (NM-SHPO), and the Advisory Council on Historic Preservation. We will also be consulting with the additional tribes who express interest in this project, who may wish to participate in the PA.

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Sincerely,

Jesse Juen
State Director

1 Enclosure

cc:
MAPL WEP III Project File

United States Department of the Interior

BUREAU OF LAND MANAGEMENT
Farmington District
Farmington Field Office
6251 College Boulevard, Suite A
Farmington, New Mexico 87402
www.blm.gov/nm

In Reply Refer To:

NMNM 126958
(Enterprise MAPL)

OCT 31 2012

CERTIFIED MAIL—RETURN RECEIPT REQUESTED
7011 3500 0002 7959 0968

Subject: Cooperating Agency Invitation for the Enterprise Mid-America Pipeline Project

Chairman LeRoy Shingoitewa
Hopi Tribal Council
P.O. Box 123
Kykotsmovi, AZ 86039

Dear Chairman Shingoitewa:

I am writing to let you know that the Bureau of Land Management (BLM), Farmington Field Office, New Mexico has initiated an Environmental Assessment (EA) for a right-of-way application under the Mineral Leasing Act (MLA) from Enterprise Mid-America Pipeline (MAPL) to construct a natural gas liquids pipeline project, located on public, state and private lands. I am also inviting you to participate as a cooperating agency in this process.

Project Background

Enterprise MAPL, hereafter referred to as "Applicant," proposes to construct, operate, maintain, and abandon approximately 246 miles of 16-inch natural gas liquids pipeline comprised of a series of seven loop segments (portions of segments 1 and 3 would be 20-inch diameter pipeline). The proposed project would transport increased natural gas liquids production in northwestern New Mexico to Hobbs, New Mexico and ultimately to markets in Mont Belvieu, Texas, helping to meet existing and future demand. The proposed pipeline loop segments would follow an existing pipeline corridor and tie in to the existing pipeline (2008 Western Expansion Pipeline).

The proposed pipeline would traverse San Juan, Rio Arriba, Sandoval, McKinley, Bernalillo, Santa Fe, Torrance, Guadalupe, Lincoln, De Baca, Chaves, and Lea Counties, in New Mexico. The proposed Western Expansion Pipeline III (WEP III) Project would cross approximately 68 miles of federal land administered by the BLM field offices—Farmington, Rio Puerco, and

Roswell, as well as approximately 26 miles of federal land administered by the Bureau of Indian Affairs (BIA), approximately 27 miles of New Mexico state land, and approximately 125 miles of private lands. Segments 1 and 2 cross Tribal reservation lands. The enclosed map shows the proposed pipeline loop segments across New Mexico. The proposed pipeline right-of-way is 50 feet wide, with a 75-foot wide temporary construction area. The Applicant estimates construction could begin as early as April 2013 and would take approximately 6 to 9 months to complete.

The Farmington Field Office is designated as the lead BLM office in New Mexico for this project. Title I and Title II of the Mineral Leasing Act of 1920, as amended (MLA), (30 U.S.C. 185) are authorities for granting and renewing rights-of-way through Federal land for oil and gas pipelines. The project as proposed also involves lands administered by the State of New Mexico. We have determined that an EA will be required for the project to comply with the requirements of the National Environmental Policy Act (NEPA).

Invitation to Participate as a Cooperating Agency in the National Environmental Policy Act Process.

The BLM regulations state that state agencies, local governments, tribal governments, and other federal agencies may serve as cooperating agencies during the EA process if they have either jurisdiction by law or special expertise.

We would like to offer you an opportunity to collaborate with us in a cooperating agency relationship on the EA, because potential alternatives for the transmission line may be located on or adjacent to lands in your jurisdiction and we believe your agency may have special expertise to contribute to the analysis of potential effects from the proposed action. The CEQ regulations implementing the NEPA (40 CFR 1500-1508) emphasize the use of such arrangements as a means of ensuring timely coordination with local, state, tribal, and Federal agencies in the preparation of NEPA analysis and documentation. The BLM places great importance on working effectively with its governmental partners through the cooperating agency relationship.

Cooperating agencies may negotiate the level of their involvement consistent with their available staffing and resources. As a cooperating agency, your organization could participate in the scoping process; assist in developing information to be included in the EA; develop and identify potential mitigation measures, and identify other pertinent information that could be useful in the preparation of the EA, as well as the overall project proposal. Alternatively, you may be able to accomplish your objectives by having your staff participate less formally in the process. Either way, gaining your expertise and perspective is important to the success of the EA and subsequent management strategies.

Please note that cooperating agency participation does not necessarily imply that your agency supports the proposed project. Additionally, the cooperating agency must sign a Memorandum of Understanding with BLM, and must fund its own participation. More information about the cooperating agency relationship, including the recently released *A Desk Guide to Cooperating Agency Relationships*, can be found on our cooperating agency web site: http://www.blm.gov/wo/st/en/prog/planning/cooperating_agencies0.html

Response to this Letter
If you would like to participate as a cooperating agency, please submit in writing a letter to the Bureau of Land Management, Farmington Field Office, c/o Cooperating Agency Status for the Enterprise MAPL WEP III Project, 6251 College Blvd, Ste. A., Farmington, NM 87402, within 30 days of receiving this letter. The BLM is also planning to hold a Cooperating Agency Informational Meeting in November. As soon as possible, please let us know if your agency is interested in attending this informational meeting, and we will coordinate with you on your availability.

If you have any questions concerning cooperating agency status or this invitation, please contact Mrs. Lorraine J. Salas, BLM National Project Manager for the Enterprise MAPL WEP III Project. Her contact information is BLM, Las Cruces District 1800 Marquess Street, Las Cruces, NM 88007; (575) 525-4388; lsalas@blm.gov.

Thank you for your consideration. We look forward to our interaction and discussions.

Sincerely,

Gary Torres
Field Manager
Farmington Field Office

Enclosure – Enterprise MAPL WEP III General Location Map

cc: Lorraine Salas
Dave Simons
Tom Gow
Leigh Kuwanwisiwma

United States Department of the Interior

BUREAU OF LAND MANAGEMENT
Farmington District
Farmington Field Office
6251 College Boulevard, Suite A
Farmington, New Mexico 87402
www.blm.gov/nm

In Reply Refer To:

NMNM 126958
(Enterprise MAPL)

OCT 31 2012

CERTIFIED MAIL—RETURN RECEIPT REQUESTED
7011 3500 0002 7959 0975

Subject: Cooperating Agency Invitation for the Enterprise Mid-America Pipeline Project

President Frederick Chino
Mescalero-Apache Tribe
P.O. Box 227
Mescalero, NM 88340

Dear President Chino:

I am writing to let you know that the Bureau of Land Management (BLM), Farmington Field Office, New Mexico has initiated an Environmental Assessment (EA) for a right-of-way application under the Mineral Leasing Act (MLA) from Enterprise Mid-America Pipeline (MAPL) to construct a natural gas liquids pipeline project, located on public, state and private lands. I am also inviting you to participate as a cooperating agency in this process.

Project Background

Enterprise MAPL, hereafter referred to as "Applicant," proposes to construct, operate, maintain, and abandon approximately 246 miles of 16-inch natural gas liquids pipeline comprised of a series of seven loop segments (portions of segments 1 and 3 would be 20-inch diameter pipeline). The proposed project would transport increased natural gas liquids production in northwestern New Mexico to Hobbs, New Mexico and ultimately to markets in Mont Belvieu, Texas, helping to meet existing and future demand. The proposed pipeline loop segments would follow an existing pipeline corridor and tie in to the existing pipeline (2008 Western Expansion Pipeline).

The proposed pipeline would traverse San Juan, Rio Arriba, Sandoval, McKinley, Bernalillo, Santa Fe, Torrance, Guadalupe, Lincoln, De Baca, Chaves, and Lea Counties, in New Mexico. The proposed Western Expansion Pipeline III (WEP III) Project would cross approximately 68 miles of federal land administered by the BLM field offices—Farmington, Rio Puerco, and

Roswell, as well as approximately 26 miles of federal land administered by the Bureau of Indian Affairs (BIA), approximately 27 miles of New Mexico state land, and approximately 125 miles of private lands. Segments 1 and 2 cross Tribal reservation lands. The enclosed map shows the proposed pipeline loop segments across New Mexico. The proposed pipeline right-of-way is 50 feet wide, with a 75-foot wide temporary construction area. The Applicant estimates construction could begin as early as April 2013 and would take approximately 6 to 9 months to complete.

The Farmington Field Office is designated as the lead BLM office in New Mexico for this project. Title I and Title II of the Mineral Leasing Act of 1920, as amended (MLA), (30 U.S.C. 185) are authorities for granting and renewing rights-of-way through Federal land for oil and gas pipelines. The project as proposed also involves lands administered by the State of New Mexico. We have determined that an EA will be required for the project to comply with the requirements of the National Environmental Policy Act (NEPA).

Invitation to Participate as a Cooperating Agency in the National Environmental Policy Act Process.

The BLM regulations state that state agencies, local governments, tribal governments, and other federal agencies may serve as cooperating agencies during the EA process if they have either jurisdiction by law or special expertise.

We would like to offer you an opportunity to collaborate with us in a cooperating agency relationship on the EA, because potential alternatives for the transmission line may be located on or adjacent to lands in your jurisdiction and we believe your agency may have special expertise to contribute to the analysis of potential effects from the proposed action. The CEQ regulations implementing the NEPA (40 CFR 1500-1508) emphasize the use of such arrangements as a means of ensuring timely coordination with local, state, tribal, and Federal agencies in the preparation of NEPA analysis and documentation. The BLM places great importance on working effectively with its governmental partners through the cooperating agency relationship.

Cooperating agencies may negotiate the level of their involvement consistent with their available staffing and resources. As a cooperating agency, your organization could participate in the scoping process; assist in developing information to be included in the EA; develop and identify potential mitigation measures, and identify other pertinent information that could be useful in the preparation of the EA, as well as the overall project proposal. Alternatively, you may be able to accomplish your objectives by having your staff participate less formally in the process. Either way, gaining your expertise and perspective is important to the success of the EA and subsequent management strategies.

Please note that cooperating agency participation does not necessarily imply that your agency supports the proposed project. Additionally, the cooperating agency must sign a Memorandum of Understanding with BLM, and must fund its own participation. More information about the cooperating agency relationship, including the recently released *A Desk Guide to Cooperating Agency Relationships*, can be found on our cooperating agency web site: http://www.blm.gov/wo/st/en/prog/planning/cooperating_agencies0.html

Response to this Letter
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If you have any questions concerning cooperating agency status or this invitation, please contact Mrs. Lorraine J. Salas, BLM National Project Manager for the Enterprise MAPL WEP III Project. Her contact information is BLM, Las Cruces District 1800 Marquess Street, Las Cruces, NM 88007; (575) 525-4388; lsalas@blm.gov.

Thank you for your consideration. We look forward to our interaction and discussions.

Sincerely,

Gary Torres
Field Manager
Farmington Field Office

Enclosure – Enterprise MAPL WEP III General Location Map

cc: Lorraine Salas
Dave Simons
Tom Gow
Holly Houghten

United States Department of the Interior

BUREAU OF LAND MANAGEMENT
Farmington District
Farmington Field Office
6251 College Boulevard, Suite A
Farmington, New Mexico 87402
www.blm.gov/nm

In Reply Refer To:

OCT 31 2012

NMNM 126958
(Enterprise MAPL)

CERTIFIED MAIL—RETURN RECEIPT REQUESTED
7011 3500 0002 7959 1095

Subject: Cooperating Agency Invitation for the Enterprise Mid-America Pipeline Project

President Ben Shelley
The Navajo Nation
P.O. Box 9000
Window Rock, AZ 86515

Dear President Shelley:

I am writing to let you know that the Bureau of Land Management (BLM), Farmington Field Office, New Mexico has initiated an Environmental Assessment (EA) for a right-of-way application under the Mineral Leasing Act (MLA) from Enterprise Mid-America Pipeline (MAPL) to construct a natural gas liquids pipeline project, located on public, state and private lands. I am also inviting you to participate as a cooperating agency in this process.

Project Background

Enterprise MAPL, hereafter referred to as "Applicant," proposes to construct, operate, maintain, and abandon approximately 246 miles of 16-inch natural gas liquids pipeline comprised of a series of seven loop segments (portions of segments 1 and 3 would be 20-inch diameter pipeline). The proposed project would transport increased natural gas liquids production in northwestern New Mexico to Hobbs, New Mexico and ultimately to markets in Mont Belvieu, Texas, helping to meet existing and future demand. The proposed pipeline loop segments would follow an existing pipeline corridor and tie in to the existing pipeline (2008 Western Expansion Pipeline).

The proposed pipeline would traverse San Juan, Rio Arriba, Sandoval, McKinley, Bernalillo, Santa Fe, Torrance, Guadalupe, Lincoln, De Baca, Chaves, and Lea Counties, in New Mexico. The proposed Western Expansion Pipeline III (WEP III) Project would cross approximately 68 miles of federal land administered by the BLM field offices—Farmington, Rio Puerco, and

Roswell, as well as approximately 26 miles of federal land administered by the Bureau of Indian Affairs (BIA), approximately 27 miles of New Mexico state land, and approximately 125 miles of private lands. Segments 1 and 2 cross Tribal reservation lands. The enclosed map shows the proposed pipeline loop segments across New Mexico. The proposed pipeline right-of-way is 50 feet wide, with a 75-foot wide temporary construction area. The Applicant estimates construction could begin as early as April 2013 and would take approximately 6 to 9 months to complete.

The Farmington Field Office is designated as the lead BLM office in New Mexico for this project. Title I and Title II of the Mineral Leasing Act of 1920, as amended (MLA), (30 U.S.C. 185) are authorities for granting and renewing rights-of-way through Federal land for oil and gas pipelines. The project as proposed also involves lands administered by the State of New Mexico. We have determined that an EA will be required for the project to comply with the requirements of the National Environmental Policy Act (NEPA).

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Please note that cooperating agency participation does not necessarily imply that your agency supports the proposed project. Additionally, the cooperating agency must sign a Memorandum of Understanding with BLM, and must fund its own participation. More information about the cooperating agency relationship, including the recently released *A Desk Guide to Cooperating Agency Relationships*, can be found on our cooperating agency web site: http://www.blm.gov/wo/st/en/prog/planning/cooperating_agencies0.html

Response to this Letter
If you would like to participate as a cooperating agency, please submit in writing a letter to the Bureau of Land Management, Farmington Field Office, c/o Cooperating Agency Status for the Enterprise MAPL WEP III Project, 6251 College Blvd, Ste. A., Farmington, NM 87402, within 30 days of receiving this letter. The BLM is also planning to hold a Cooperating Agency Informational Meeting in November. As soon as possible, please let us know if your agency is interested in attending this informational meeting, and we will coordinate with you on your availability.

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Thank you for your consideration. We look forward to our interaction and discussions.

Sincerely,

G Torres

Gary Torres
Field Manager
Farmington Field Office

Enclosure – Enterprise MAPL WEP III General Location Map

cc: Alan Downer
Lorraine Salas
Dave Simons
Tom Gow
Esther Willetto

United States Department of the Interior

BUREAU OF LAND MANAGEMENT
Farmington District
Farmington Field Office
6251 College Boulevard, Suite A
Farmington, New Mexico 87402
www.blm.gov/nm

In Reply Refer To:

NMNM 126958
(Enterprise MAPL)

OCT 31 2012

CERTIFIED MAIL—RETURN RECEIPT REQUESTED
7011 3500 0002 7959 0982

Subject: Cooperating Agency Invitation for the Enterprise Mid-America Pipeline Project

Governor Randall Vicente
Pueblo of Acoma
P.O. Box 309
Acoma, NM 87034

Dear Governor Vicente:

I am writing to let you know that the Bureau of Land Management (BLM), Farmington Field Office, New Mexico has initiated an Environmental Assessment (EA) for a right-of-way application under the Mineral Leasing Act (MLA) from Enterprise Mid-America Pipeline (MAPL) to construct a natural gas liquids pipeline project, located on public, state and private lands. I am also inviting you to participate as a cooperating agency in this process.

Project Background

Enterprise MAPL, hereafter referred to as "Applicant," proposes to construct, operate, maintain, and abandon approximately 246 miles of 16-inch natural gas liquids pipeline comprised of a series of seven loop segments (portions of segments 1 and 3 would be 20-inch diameter pipeline). The proposed project would transport increased natural gas liquids production in northwestern New Mexico to Hobbs, New Mexico and ultimately to markets in Mont Belvieu, Texas, helping to meet existing and future demand. The proposed pipeline loop segments would follow an existing pipeline corridor and tie in to the existing pipeline (2008 Western Expansion Pipeline).

The proposed pipeline would traverse San Juan, Rio Arriba, Sandoval, McKinley, Bernalillo, Santa Fe, Torrance, Guadalupe, Lincoln, De Baca, Chaves, and Lea Counties, in New Mexico. The proposed Western Expansion Pipeline III (WEP III) Project would cross approximately 68 miles of federal land administered by the BLM field offices—Farmington, Rio Puerco, and

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Thank you for your consideration. We look forward to our interaction and discussions.

Sincerely,

Gary Torres
Field Manager
Farmington Field Office

Enclosure – Enterprise MAPL WEP III General Location Map

cc: Lorraine Salas
Dave Simons
Tom Gow
Theresa Pasqual

United States Department of the Interior

BUREAU OF LAND MANAGEMENT
Farmington District
Farmington Field Office
6251 College Boulevard, Suite A
Farmington, New Mexico 87402
www.blm.gov/nm

OCT 31 2012

In Reply Refer To:

NMNM 126958
(Enterprise MAPL)

CERTIFIED MAIL—RETURN RECEIPT REQUESTED
7011 3500 0002 7959 0999

Subject: Cooperating Agency Invitation for the Enterprise Mid-America Pipeline Project

Governor Philip Quintana
Pueblo of Cochiti
P.O. Box 70
Cochiti Pueblo, NM 87072

Dear Governor Quintana:

I am writing to let you know that the Bureau of Land Management (BLM), Farmington Field Office, New Mexico has initiated an Environmental Assessment (EA) for a right-of-way application under the Mineral Leasing Act (MLA) from Enterprise Mid-America Pipeline (MAPL) to construct a natural gas liquids pipeline project, located on public, state and private lands. I am also inviting you to participate as a cooperating agency in this process.

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Sincerely,

Gary Torres
Field Manager
Farmington Field Office

Enclosure – Enterprise MAPL WEP III General Location Map

cc: Lorraine Salas
Dave Simons
Tom Gow

United States Department of the Interior

BUREAU OF LAND MANAGEMENT
Farmington District
Farmington Field Office
6251 College Boulevard, Suite A
Farmington, New Mexico 87402
www.blm.gov/nm

OCT 31 2012

In Reply Refer To:

NMNM 126958
(Enterprise MAPL)

CERTIFIED MAIL—RETURN RECEIPT REQUESTED
7011 3500 0002 7959 1002

Subject: Cooperating Agency Invitation for the Enterprise Mid-America Pipeline Project

Governor Frank Lujan
Pueblo of Isleta
P.O. Box 1270
Isleta, NM 87022

Dear Governor Lujan:

I am writing to let you know that the Bureau of Land Management (BLM), Farmington Field Office, New Mexico has initiated an Environmental Assessment (EA) for a right-of-way application under the Mineral Leasing Act (MLA) from Enterprise Mid-America Pipeline (MAPL) to construct a natural gas liquids pipeline project, located on public, state and private lands. I am also inviting you to participate as a cooperating agency in this process.

Project Background

Enterprise MAPL, hereafter referred to as "Applicant," proposes to construct, operate, maintain, and abandon approximately 246 miles of 16-inch natural gas liquids pipeline comprised of a series of seven loop segments (portions of segments 1 and 3 would be 20-inch diameter pipeline). The proposed project would transport increased natural gas liquids production in northwestern New Mexico to Hobbs, New Mexico and ultimately to markets in Mont Belvieu, Texas, helping to meet existing and future demand. The proposed pipeline loop segments would follow an existing pipeline corridor and tie in to the existing pipeline (2008 Western Expansion Pipeline).

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G Torres

Gary Torres
Field Manager
Farmington Field Office

Enclosure – Enterprise MAPL WEP III General Location Map

cc: Lorraine Salas
Dave Simons
Tom Gow
Valentino Jaramillo

United States Department of the Interior

BUREAU OF LAND MANAGEMENT
Farmington District
Farmington Field Office
6251 College Boulevard, Suite A
Farmington, New Mexico 87402
www.blm.gov/nm

In Reply Refer To:

OCT 31 2012

NMNM 126958
(Enterprise MAPL)

CERTIFIED MAIL—RETURN RECEIPT REQUESTED
7011 3500 0002 7959 1019

Subject: Cooperating Agency Invitation for the Enterprise Mid-America Pipeline Project

Governor Joshua Madalena
Pueblo of Jemez
P.O. Box 100
Jemez Pueblo, NM 87024

Dear Governor Madalena:

I am writing to let you know that the Bureau of Land Management (BLM), Farmington Field Office, New Mexico has initiated an Environmental Assessment (EA) for a right-of-way application under the Mineral Leasing Act (MLA) from Enterprise Mid-America Pipeline (MAPL) to construct a natural gas liquids pipeline project, located on public, state and private lands. I am also inviting you to participate as a cooperating agency in this process.

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Gary Torres
Field Manager
Farmington Field Office

Enclosure – Enterprise MAPL WEP III General Location Map

cc: Lorraine Salas
Dave Simons
Tom Gow

United States Department of the Interior

BUREAU OF LAND MANAGEMENT
Farmington District
Farmington Field Office
6251 College Boulevard, Suite A
Farmington, New Mexico 87402
www.blm.gov/nm

OCT 31 2012

In Reply Refer To:

NMNM 126958
(Enterprise MAPL)

CERTIFIED MAIL—RETURN RECEIPT REQUESTED
7011 3500 0002 7959 1026

Subject: Cooperating Agency Invitation for the Enterprise Mid-America Pipeline Project

Governor Sisto Quintana
Pueblo of Kewa
P.O. Box 99
Santo Domingo, NM 87052

Dear Governor Quintana:

I am writing to let you know that the Bureau of Land Management (BLM), Farmington Field Office, New Mexico has initiated an Environmental Assessment (EA) for a right-of-way application under the Mineral Leasing Act (MLA) from Enterprise Mid-America Pipeline (MAPL) to construct a natural gas liquids pipeline project, located on public, state and private lands. I am also inviting you to participate as a cooperating agency in this process.

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Gary Torres
Field Manager
Farmington Field Office

Enclosure – Enterprise MAPL WEP III General Location Map

cc: Lorraine Salas
Dave Simons
Tom Gow

United States Department of the Interior

BUREAU OF LAND MANAGEMENT
Farmington District
Farmington Field Office
6251 College Boulevard, Suite A
Farmington, New Mexico 87402
www.blm.gov/nm

OCT 31 2012

In Reply Refer To:

NMNM 126958
(Enterprise MAPL)

CERTIFIED MAIL—RETURN RECEIPT REQUESTED
7011 3500 0002 7959 1033

Subject: Cooperating Agency Invitation for the Enterprise Mid-America Pipeline Project

Governor Richard Luarkie
Pueblo of Laguna
P.O. Box 194
Laguna Pueblo, NM 87026

Dear Governor Luarkie:

I am writing to let you know that the Bureau of Land Management (BLM), Farmington Field Office, New Mexico has initiated an Environmental Assessment (EA) for a right-of-way application under the Mineral Leasing Act (MLA) from Enterprise Mid-America Pipeline (MAPL) to construct a natural gas liquids pipeline project, located on public, state and private lands. I am also inviting you to participate as a cooperating agency in this process.

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Gary Torres
Field Manager
Farmington Field Office

Enclosure – Enterprise MAPL WEP III General Location Map

cc: Lorraine Salas
Dave Simons
Tom Gow
Frank Cerno

United States Department of the Interior

BUREAU OF LAND MANAGEMENT
Farmington District
Farmington Field Office
6251 College Boulevard, Suite A
Farmington, New Mexico 87402
www.blm.gov/nm

In Reply Refer To:

OCT 31 2012

NMNM 126958
(Enterprise MAPL)

CERTIFIED MAIL—RETURN RECEIPT REQUESTED
7011 3500 0002 7959 1040

Subject: Cooperating Agency Invitation for the Enterprise Mid-America Pipeline Project

Governor Anthony Ortiz
Pueblo of San Felipe
P.O. Box 4339
San Felipe, NM 87001

Dear Governor Ortiz:

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Response to this Letter
If you would like to participate as a cooperating agency, please submit in writing a letter to the Bureau of Land Management, Farmington Field Office, c/o Cooperating Agency Status for the Enterprise MAPL WEP III Project, 6251 College Blvd, Ste. A., Farmington, NM 87402, within 30 days of receiving this letter. The BLM is also planning to hold a Cooperating Agency Informational Meeting in November. As soon as possible, please let us know if your agency is interested in attending this informational meeting, and we will coordinate with you on your availability.

If you have any questions concerning cooperating agency status or this invitation, please contact Mrs. Lorraine J. Salas, BLM National Project Manager for the Enterprise MAPL WEP III Project. Her contact information is BLM, Las Cruces District 1800 Marquess Street, Las Cruces, NM 88007; (575) 525-4388; lsalas@blm.gov.

Thank you for your consideration. We look forward to our interaction and discussions.

Sincerely,

G Torres

Gary Torres
Field Manager
Farmington Field Office

Enclosure – Enterprise MAPL WEP III General Location Map

cc: Lorraine Salas
Dave Simons
Tom Gow

United States Department of the Interior

BUREAU OF LAND MANAGEMENT
Farmington District
Farmington Field Office
6251 College Boulevard, Suite A
Farmington, New Mexico 87402
www.blm.gov/nm

In Reply Refer To:

NMNM 126958
(Enterprise MAPL)

OCT 31 2012

CERTIFIED MAIL—RETURN RECEIPT REQUESTED
7011 3500 0002 7959 1057

Subject: Cooperating Agency Invitation for the Enterprise Mid-America Pipeline Project

Governor Malcom Montoya
Pueblo of Sandia
481 Sandia Loop
Bernalillo, NM 87004

Dear Governor Montoya:

I am writing to let you know that the Bureau of Land Management (BLM), Farmington Field Office, New Mexico has initiated an Environmental Assessment (EA) for a right-of-way application under the Mineral Leasing Act (MLA) from Enterprise Mid-America Pipeline (MAPL) to construct a natural gas liquids pipeline project, located on public, state and private lands. I am also inviting you to participate as a cooperating agency in this process.

Project Background

Enterprise MAPL, hereafter referred to as "Applicant," proposes to construct, operate, maintain, and abandon approximately 246 miles of 16-inch natural gas liquids pipeline comprised of a series of seven loop segments (portions of segments 1 and 3 would be 20-inch diameter pipeline). The proposed project would transport increased natural gas liquids production in northwestern New Mexico to Hobbs, New Mexico and ultimately to markets in Mont Belvieu, Texas, helping to meet existing and future demand. The proposed pipeline loop segments would follow an existing pipeline corridor and tie in to the existing pipeline (2008 Western Expansion Pipeline).

The proposed pipeline would traverse San Juan, Rio Arriba, Sandoval, McKinley, Bernalillo, Santa Fe, Torrance, Guadalupe, Lincoln, De Baca, Chaves, and Lea Counties, in New Mexico. The proposed Western Expansion Pipeline III (WEP III) Project would cross approximately 68 miles of federal land administered by the BLM field offices—Farmington, Rio Puerco, and

Roswell, as well as approximately 26 miles of federal land administered by the Bureau of Indian Affairs (BIA), approximately 27 miles of New Mexico state land, and approximately 125 miles of private lands. Segments 1 and 2 cross Tribal reservation lands. The enclosed map shows the proposed pipeline loop segments across New Mexico. The proposed pipeline right-of-way is 50 feet wide, with a 75-foot wide temporary construction area. The Applicant estimates construction could begin as early as April 2013 and would take approximately 6 to 9 months to complete.

The Farmington Field Office is designated as the lead BLM office in New Mexico for this project. Title I and Title II of the Mineral Leasing Act of 1920, as amended (MLA), (30 U.S.C. 185) are authorities for granting and renewing rights-of-way through Federal land for oil and gas pipelines. The project as proposed also involves lands administered by the State of New Mexico. We have determined that an EA will be required for the project to comply with the requirements of the National Environmental Policy Act (NEPA).

Invitation to Participate as a Cooperating Agency in the National Environmental Policy Act Process.

The BLM regulations state that state agencies, local governments, tribal governments, and other federal agencies may serve as cooperating agencies during the EA process if they have either jurisdiction by law or special expertise.

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Response to this Letter
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Thank you for your consideration. We look forward to our interaction and discussions.

Sincerely,

Gary Torres
Field Manager
Farmington Field Office

Enclosure – Enterprise MAPL WEP III General Location Map

cc: Lorraine Salas
Dave Simons
Tom Gow

United States Department of the Interior

BUREAU OF LAND MANAGEMENT
Farmington District
Farmington Field Office
6251 College Boulevard, Suite A
Farmington, New Mexico 87402
www.blm.gov/nm

In Reply Refer To:

NMNM 126958
(Enterprise MAPL)

OCT 31 2012

CERTIFIED MAIL—RETURN RECEIPT REQUESTED
7011 3500 0002 7959 1064

Subject: Cooperating Agency Invitation for the Enterprise Mid-America Pipeline Project

Governor Ernest Lujan
Pueblo of Santa Ana
2 Dove Road
Santa Ana, NM 87004

Dear Governor Lujan:

I am writing to let you know that the Bureau of Land Management (BLM), Farmington Field Office, New Mexico has initiated an Environmental Assessment (EA) for a right-of-way application under the Mineral Leasing Act (MLA) from Enterprise Mid-America Pipeline (MAPL) to construct a natural gas liquids pipeline project, located on public, state and private lands. I am also inviting you to participate as a cooperating agency in this process.

Project Background

Enterprise MAPL, hereafter referred to as "Applicant," proposes to construct, operate, maintain, and abandon approximately 246 miles of 16-inch natural gas liquids pipeline comprised of a series of seven loop segments (portions of segments 1 and 3 would be 20-inch diameter pipeline). The proposed project would transport increased natural gas liquids production in northwestern New Mexico to Hobbs, New Mexico and ultimately to markets in Mont Belvieu, Texas, helping to meet existing and future demand. The proposed pipeline loop segments would follow an existing pipeline corridor and tie in to the existing pipeline (2008 Western Expansion Pipeline).

The proposed pipeline would traverse San Juan, Rio Arriba, Sandoval, McKinley, Bernalillo, Santa Fe, Torrance, Guadalupe, Lincoln, De Baca, Chaves, and Lea Counties, in New Mexico. The proposed Western Expansion Pipeline III (WEP III) Project would cross approximately 68 miles of federal land administered by the BLM field offices—Farmington, Rio Puerco, and

Roswell, as well as approximately 26 miles of federal land administered by the Bureau of Indian Affairs (BIA), approximately 27 miles of New Mexico state land, and approximately 125 miles of private lands. Segments 1 and 2 cross Tribal reservation lands. The enclosed map shows the proposed pipeline loop segments across New Mexico. The proposed pipeline right-of-way is 50 feet wide, with a 75-foot wide temporary construction area. The Applicant estimates construction could begin as early as April 2013 and would take approximately 6 to 9 months to complete.

The Farmington Field Office is designated as the lead BLM office in New Mexico for this project. Title I and Title II of the Mineral Leasing Act of 1920, as amended (MLA), (30 U.S.C. 185) are authorities for granting and renewing rights-of-way through Federal land for oil and gas pipelines. The project as proposed also involves lands administered by the State of New Mexico. We have determined that an EA will be required for the project to comply with the requirements of the National Environmental Policy Act (NEPA).

Invitation to Participate as a Cooperating Agency in the National Environmental Policy Act Process.

The BLM regulations state that state agencies, local governments, tribal governments, and other federal agencies may serve as cooperating agencies during the EA process if they have either jurisdiction by law or special expertise.

We would like to offer you an opportunity to collaborate with us in a cooperating agency relationship on the EA, because potential alternatives for the transmission line may be located on or adjacent to lands in your jurisdiction and we believe your agency may have special expertise to contribute to the analysis of potential effects from the proposed action. The CEQ regulations implementing the NEPA (40 CFR 1500-1508) emphasize the use of such arrangements as a means of ensuring timely coordination with local, state, tribal, and Federal agencies in the preparation of NEPA analysis and documentation. The BLM places great importance on working effectively with its governmental partners through the cooperating agency relationship.

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Thank you for your consideration. We look forward to our interaction and discussions.

Sincerely,

G Torres

Gary Torres
Field Manager
Farmington Field Office

Enclosure – Enterprise MAPL WEP III General Location Map

cc: Lorraine Salas
Dave Simons
Tom Gow
Walter Cristobal

United States Department of the Interior

BUREAU OF LAND MANAGEMENT
Farmington District
Farmington Field Office
6251 College Boulevard, Suite A
Farmington, New Mexico 87402
www.blm.gov/nm

In Reply Refer To:

NMNM 126958
(Enterprise MAPL)

OCT 31 2012

CERTIFIED MAIL—RETURN RECEIPT REQUESTED
7011 3500 0002 7959 1118

Subject: Cooperating Agency Invitation for the Enterprise Mid-America Pipeline Project

Governor Wilfred Shije
Pueblo of Zia
125 Capitol Square Drive
Zia Pueblo, NM 87053-6013

Dear Governor Shije:

I am writing to let you know that the Bureau of Land Management (BLM), Farmington Field Office, New Mexico has initiated an Environmental Assessment (EA) for a right-of-way application under the Mineral Leasing Act (MLA) from Enterprise Mid-America Pipeline (MAPL) to construct a natural gas liquids pipeline project, located on public, state and private lands. I am also inviting you to participate as a cooperating agency in this process.

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Thank you for your consideration. We look forward to our interaction and discussions.

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Gary Torres
Field Manager
Farmington Field Office

Enclosure – Enterprise MAPL WEP III General Location Map

cc: Lorraine Salas
Dave Simons
Tom Gow
Peter Pino

United States Department of the Interior

BUREAU OF LAND MANAGEMENT
Farmington District
Farmington Field Office
6251 College Boulevard, Suite A
Farmington, New Mexico 87402
www.blm.gov/nm

In Reply Refer To:

NMNM 126958
(Enterprise MAPL)

OCT 31 2012

CERTIFIED MAIL—RETURN RECEIPT REQUESTED
7011 3500 0002 7959 1088

Subject: Cooperating Agency Invitation for the Enterprise Mid-America Pipeline Project

Governor Arlen Quetawki
Pueblo of Zuni
P.O. Box 339
Zuni, NM 87327

Dear Governor Quetawki:

I am writing to let you know that the Bureau of Land Management (BLM), Farmington Field Office, New Mexico has initiated an Environmental Assessment (EA) for a right-of-way application under the Mineral Leasing Act (MLA) from Enterprise Mid-America Pipeline (MAPL) to construct a natural gas liquids pipeline project, located on public, state and private lands. I am also inviting you to participate as a cooperating agency in this process.

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Thank you for your consideration. We look forward to our interaction and discussions.

Sincerely,

Gary Torres
Field Manager
Farmington Field Office

Enclosure – Enterprise MAPL WEP III General Location Map

cc: Lorraine Salas
Dave Simons
Tom Gow
Kurt Dongoske